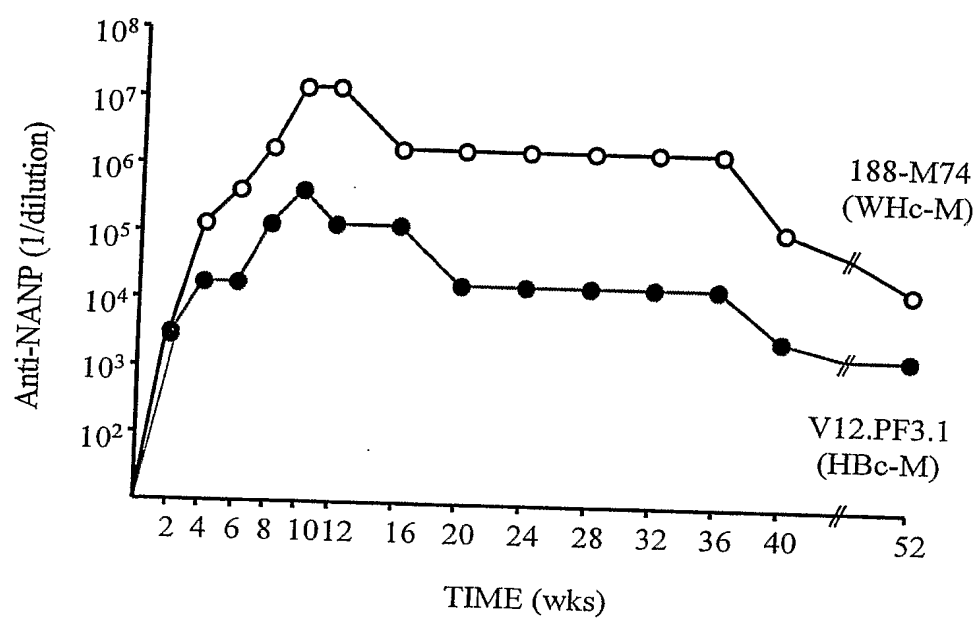
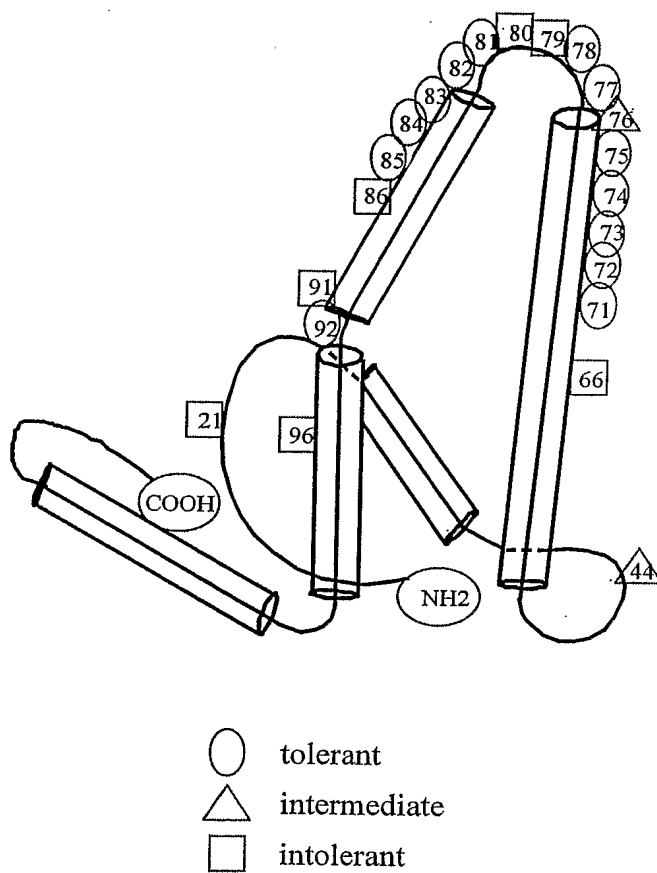
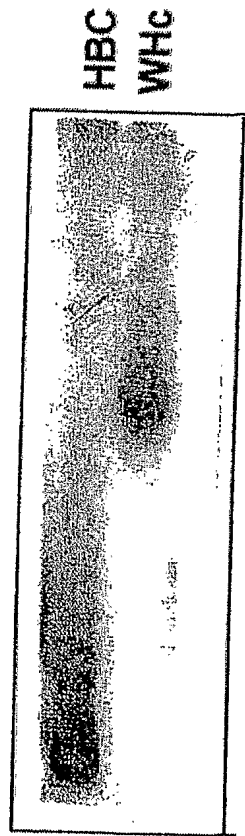


**Fig. 1**

**Fig. 2**

**Fig. 3**



**Fig. 4**

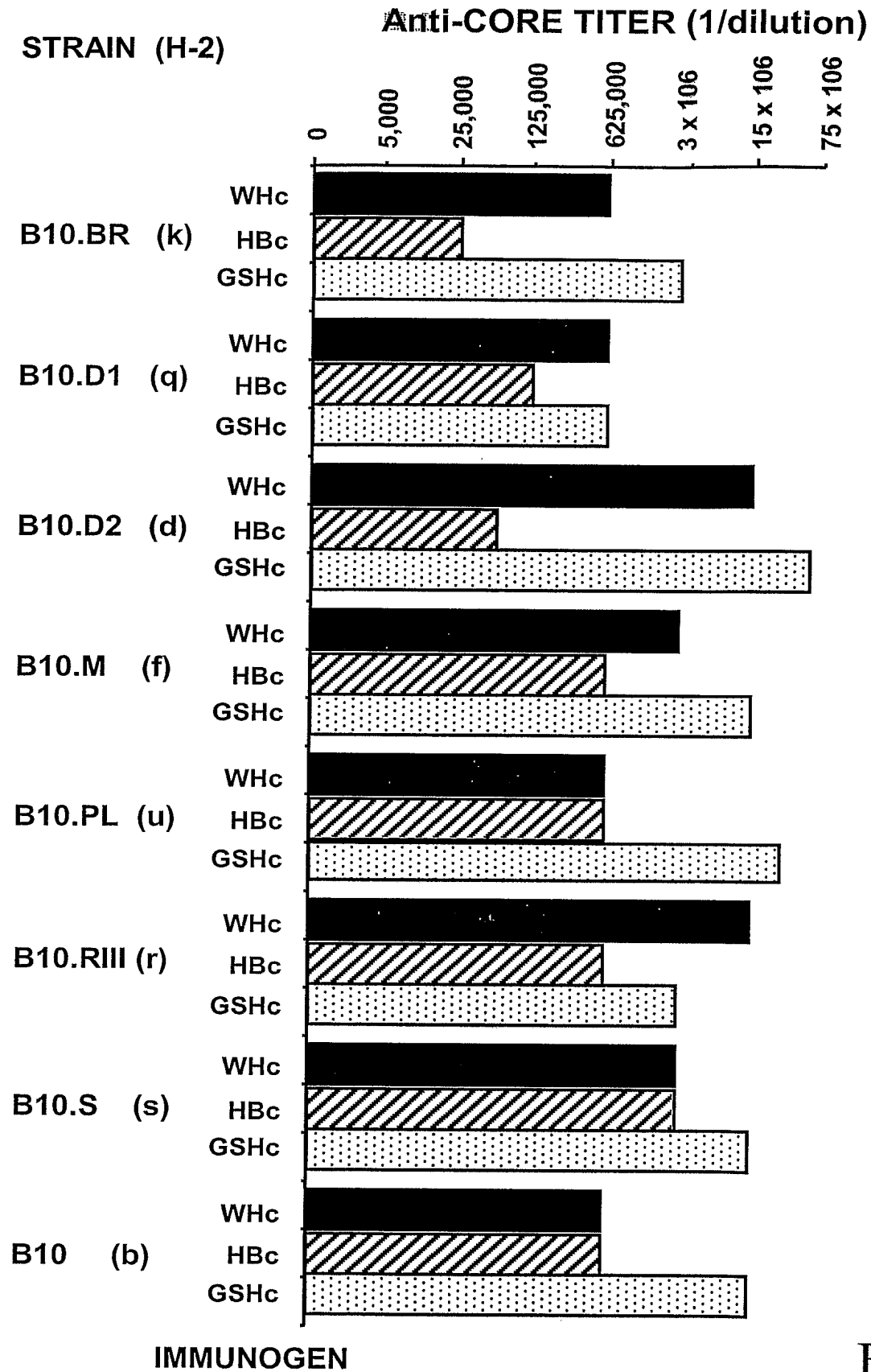


Fig. 5

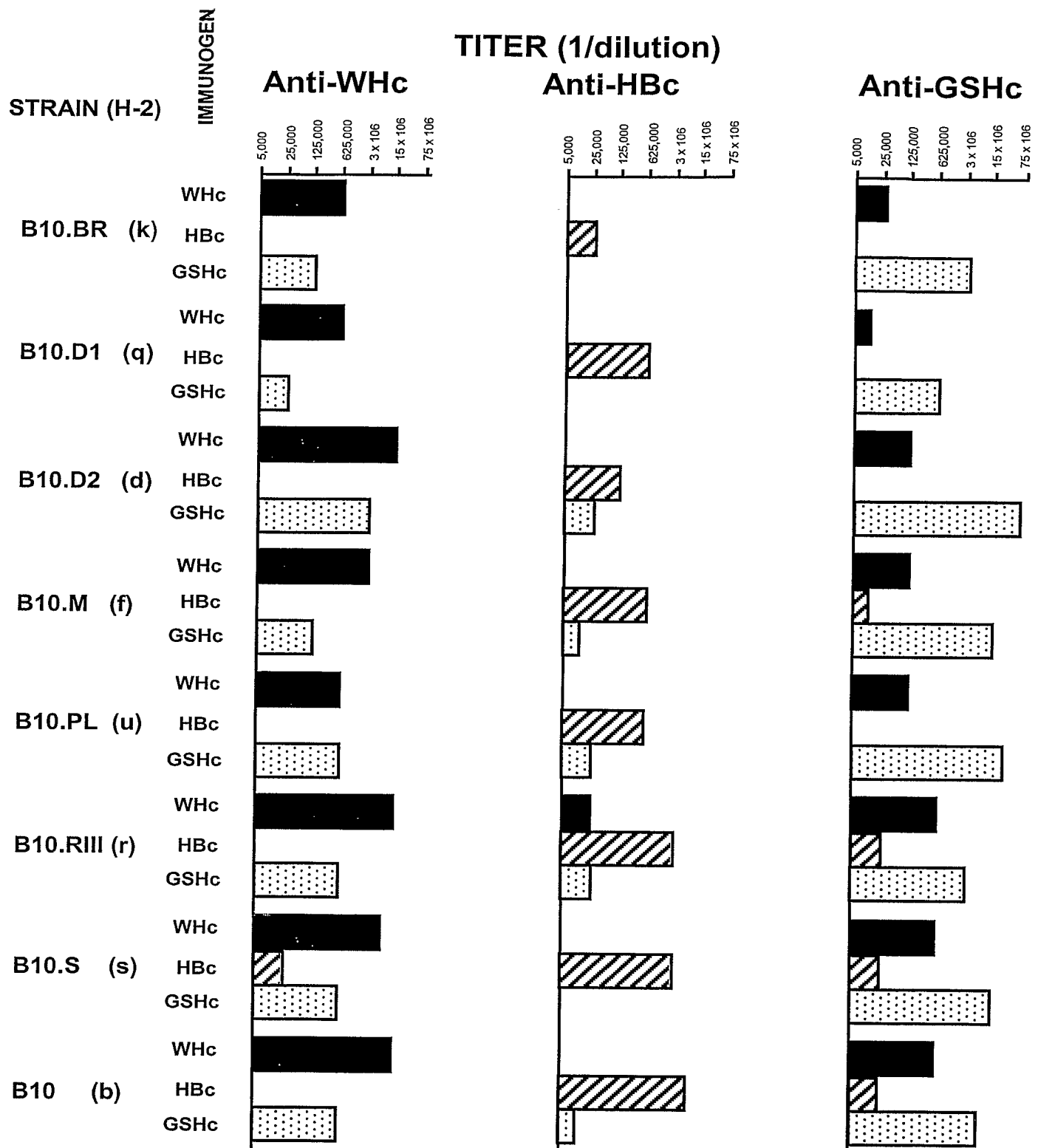


Fig. 6

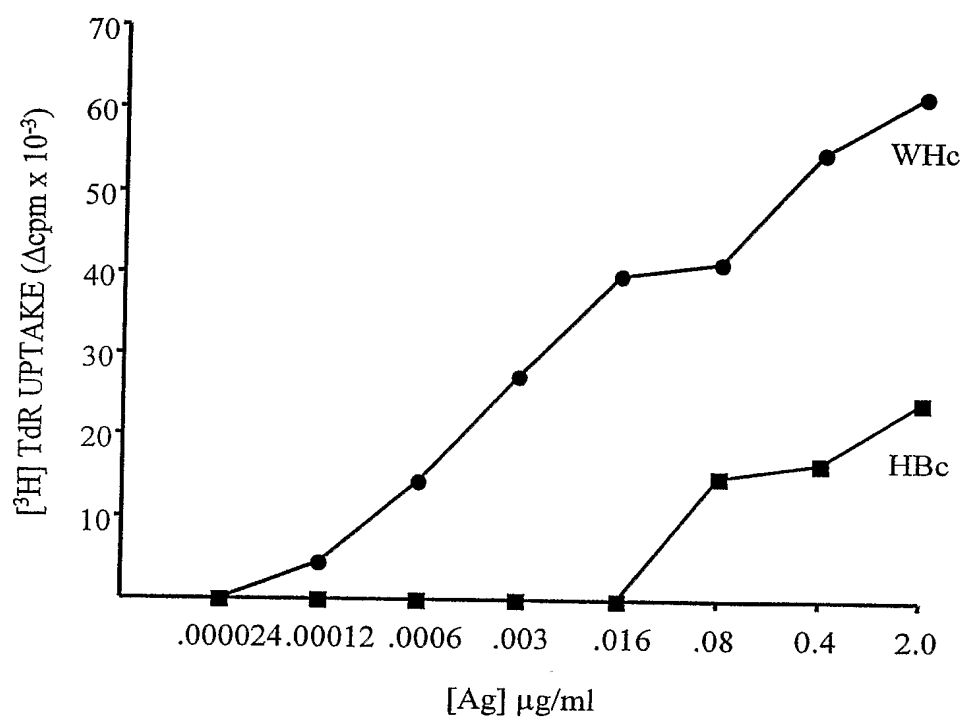


Fig. 7

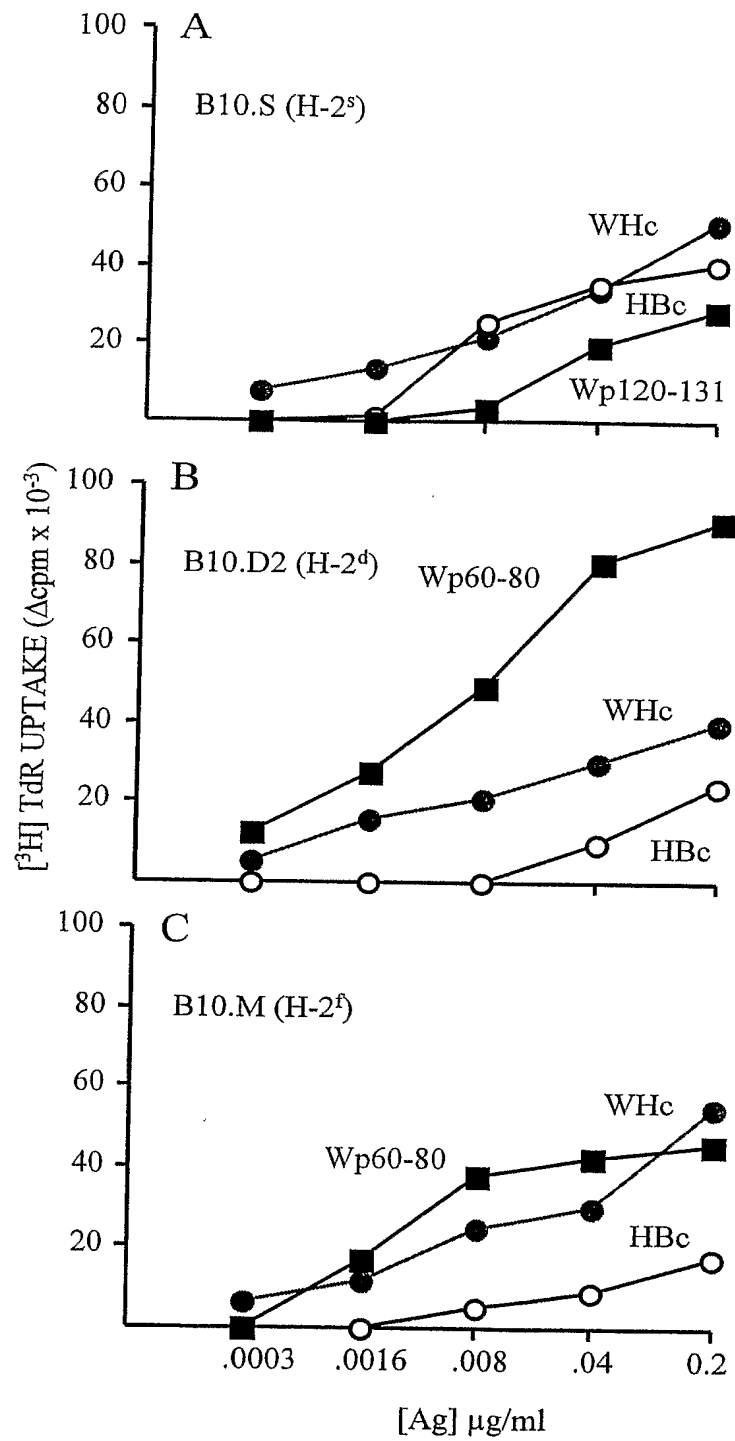
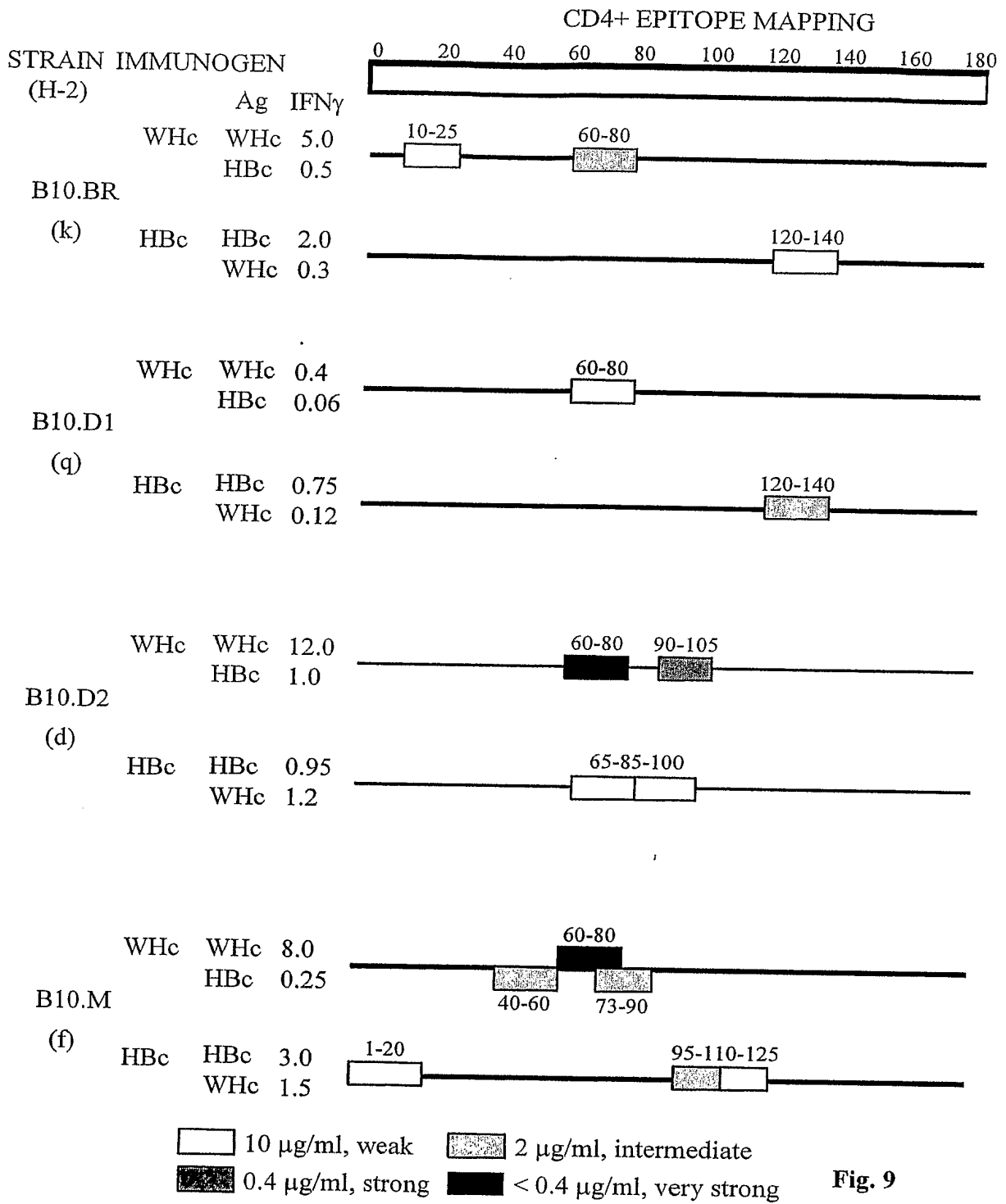
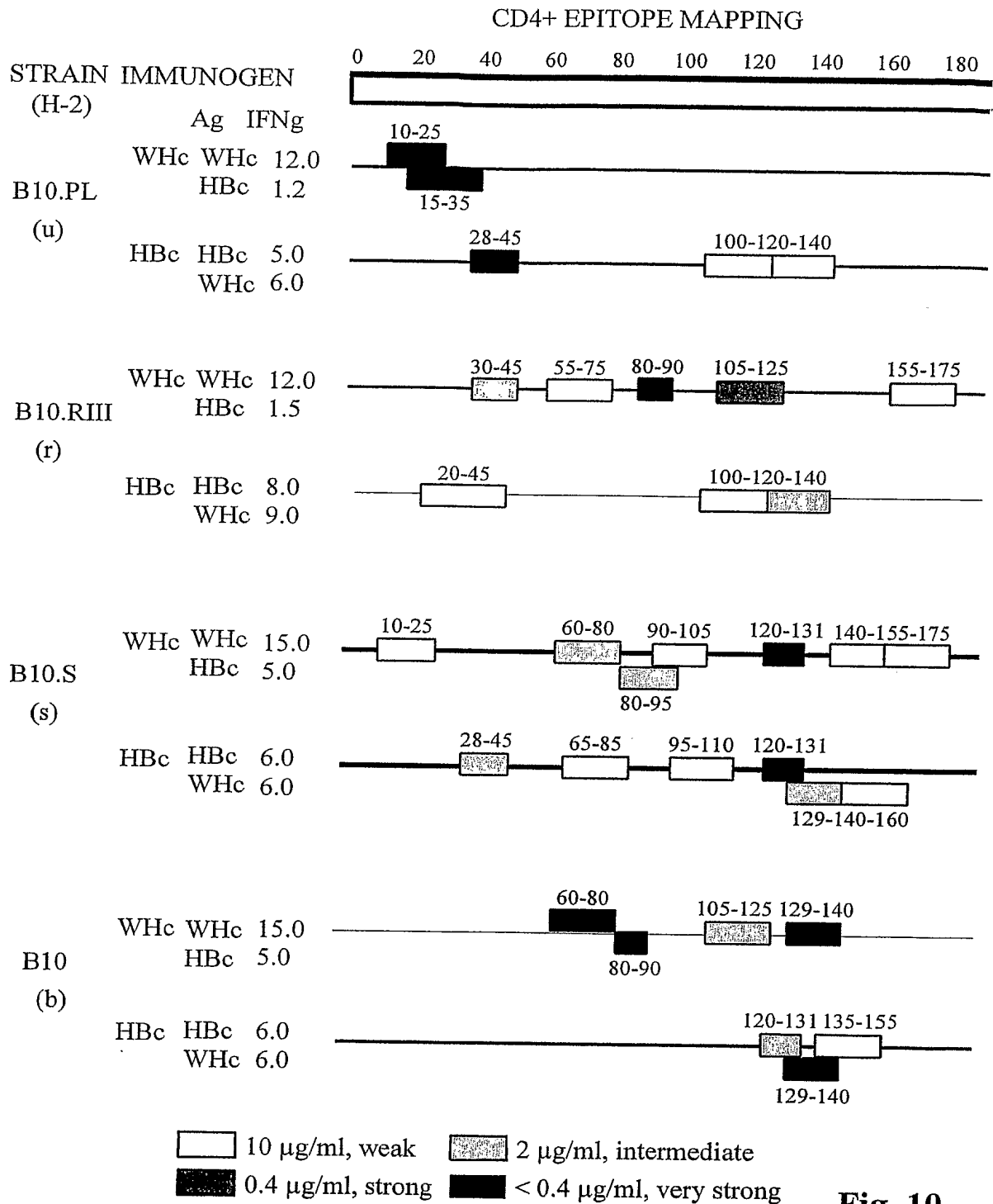


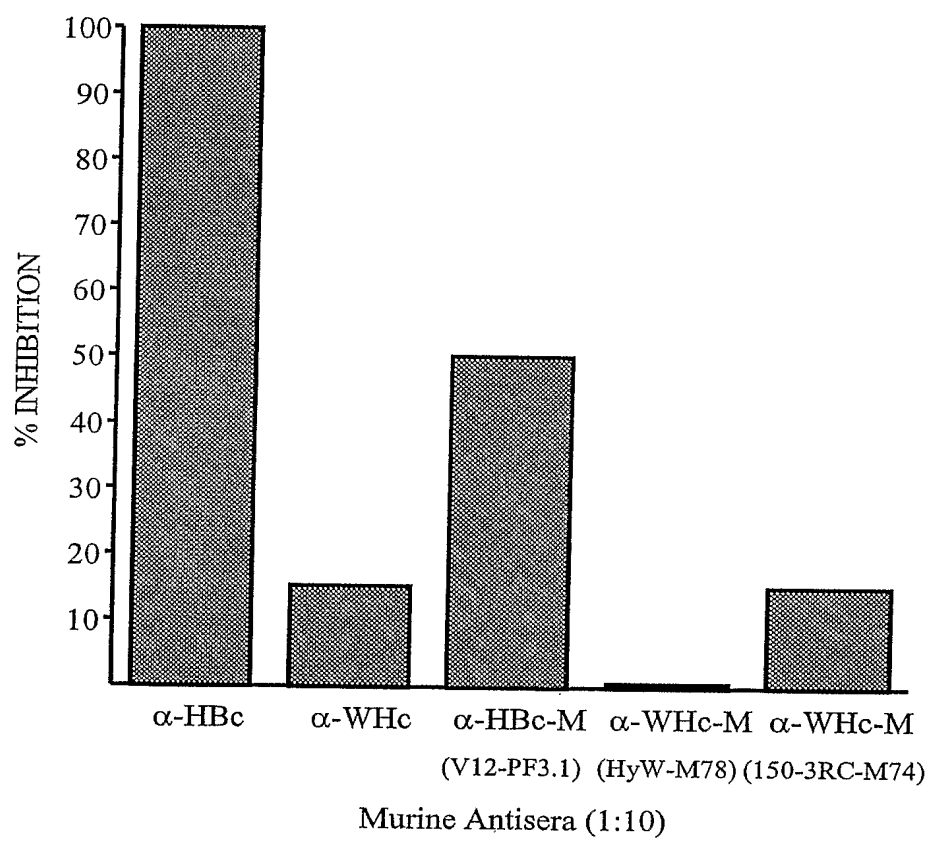
Fig. 8

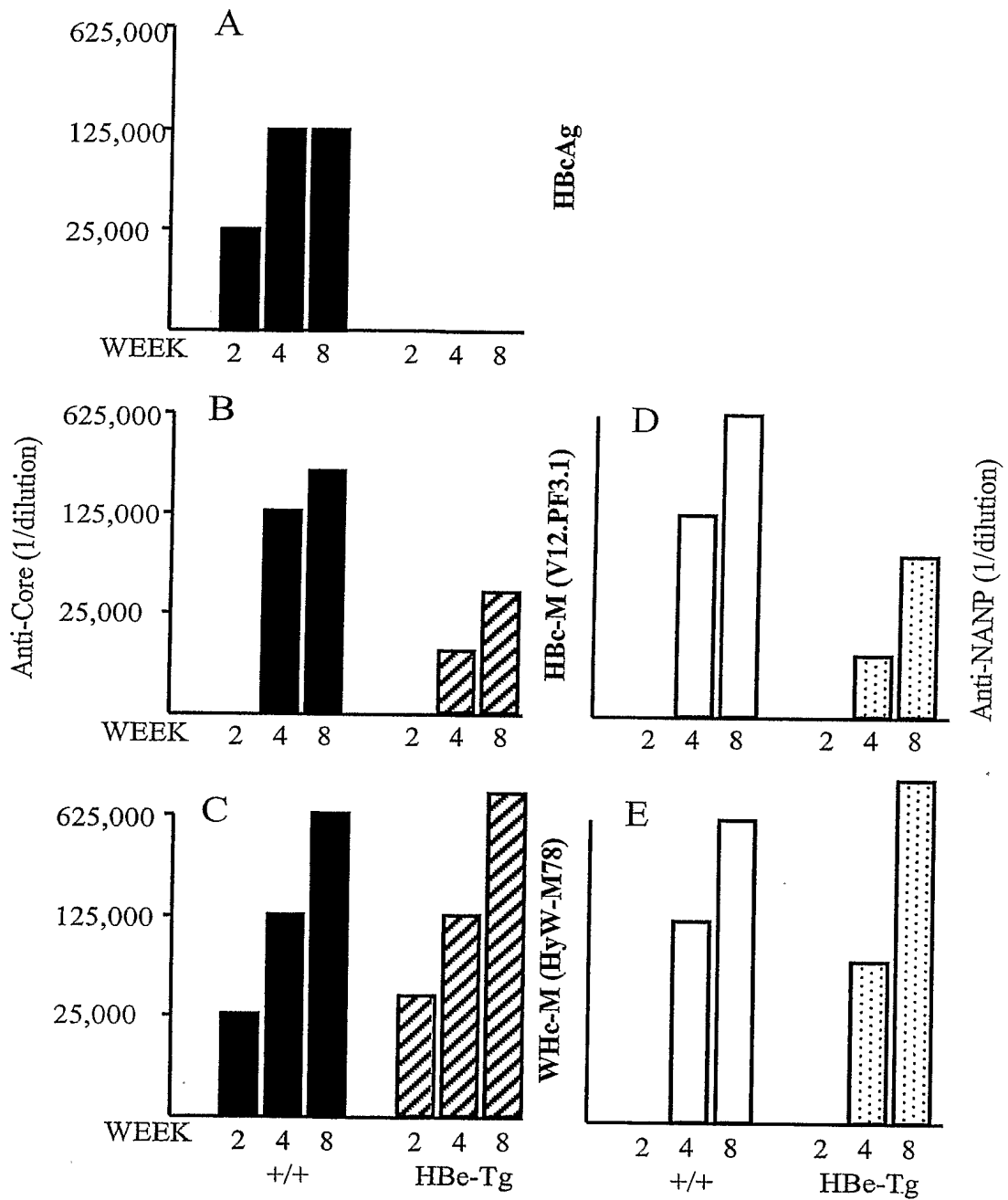






**Fig. 10**

**Fig. 11**



**Fig. 12**

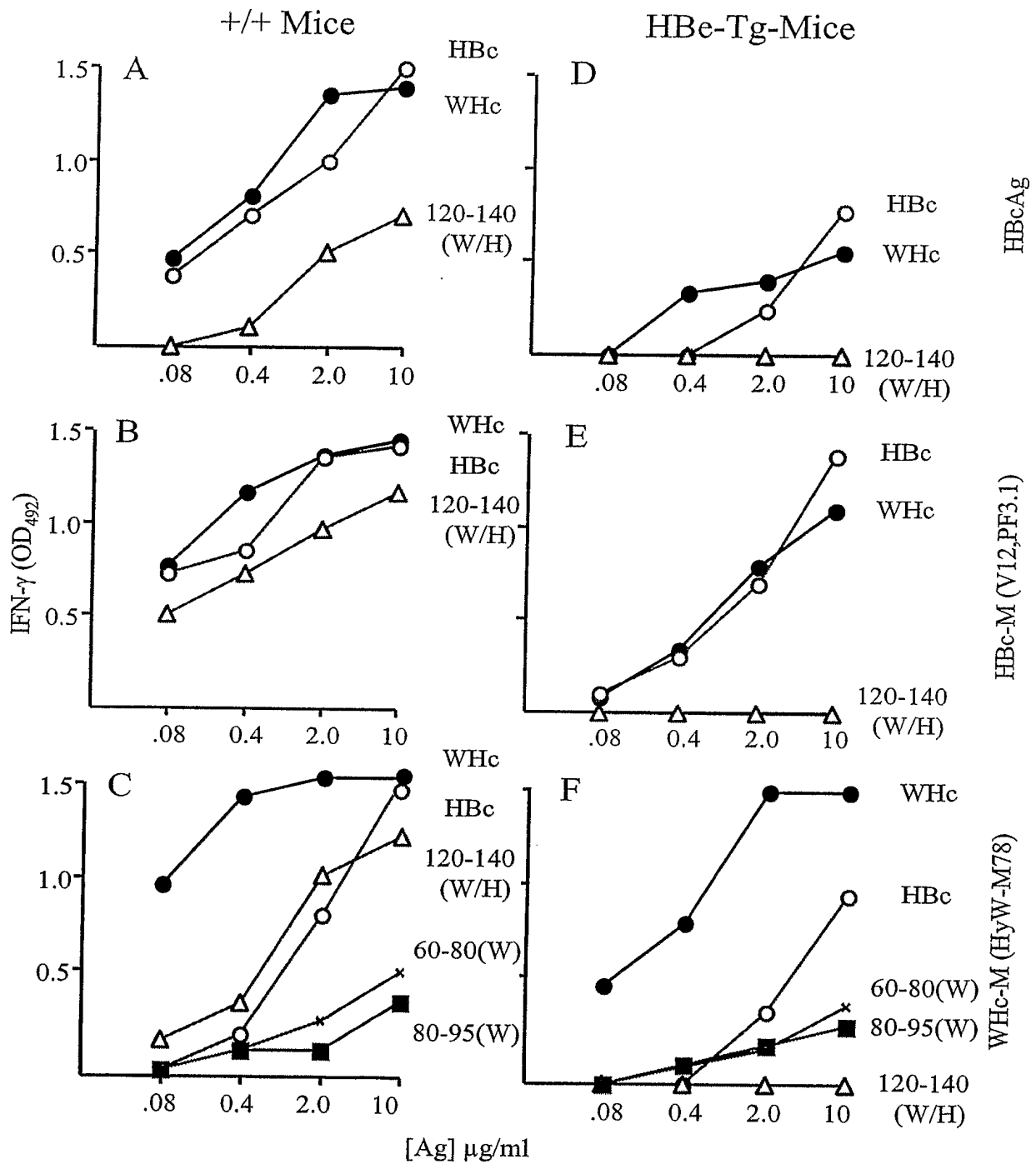


Fig. 13

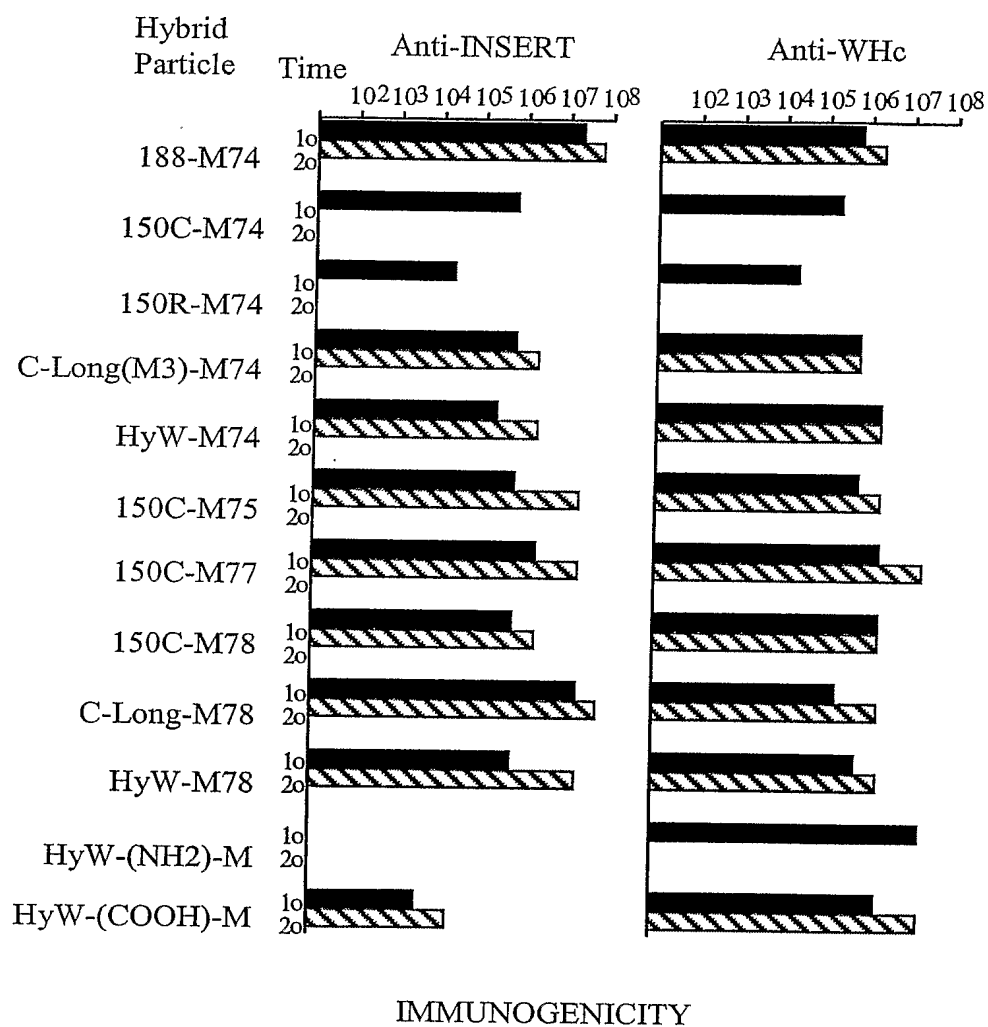
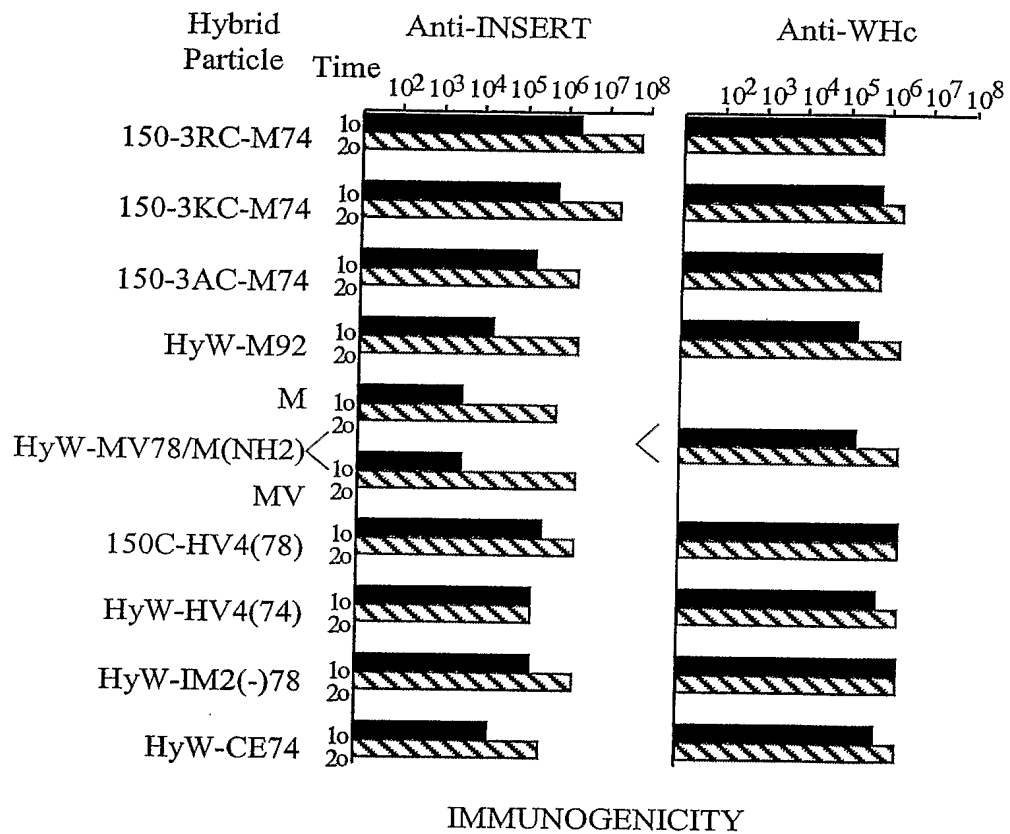
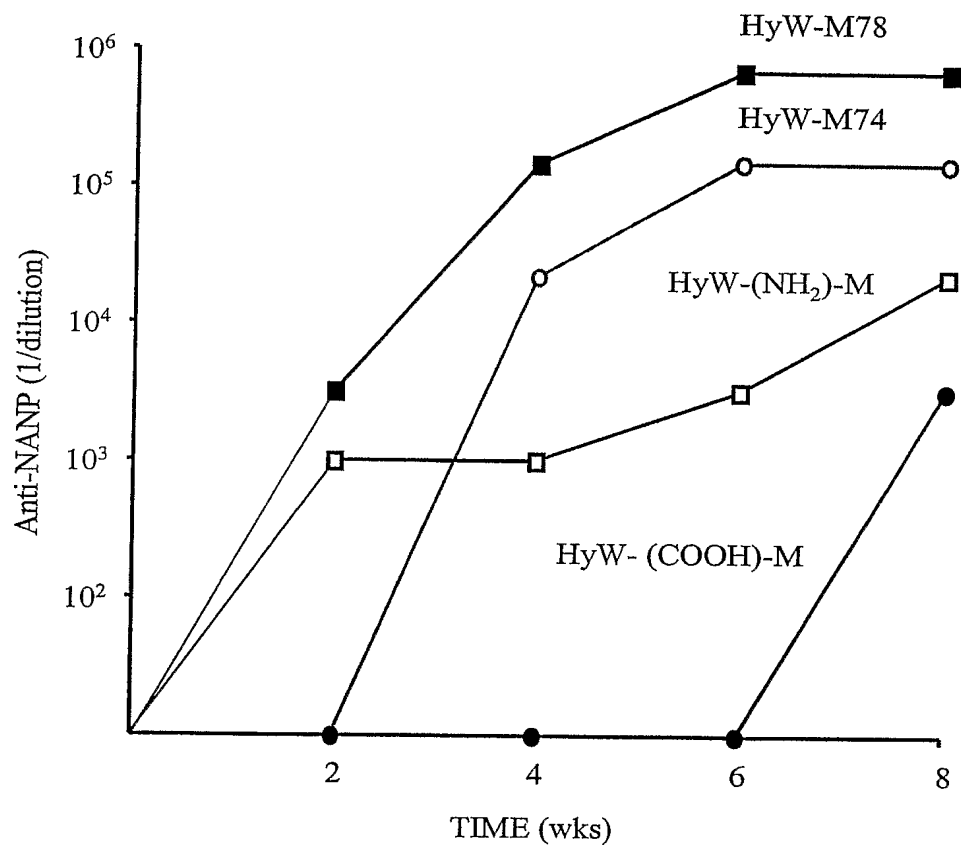


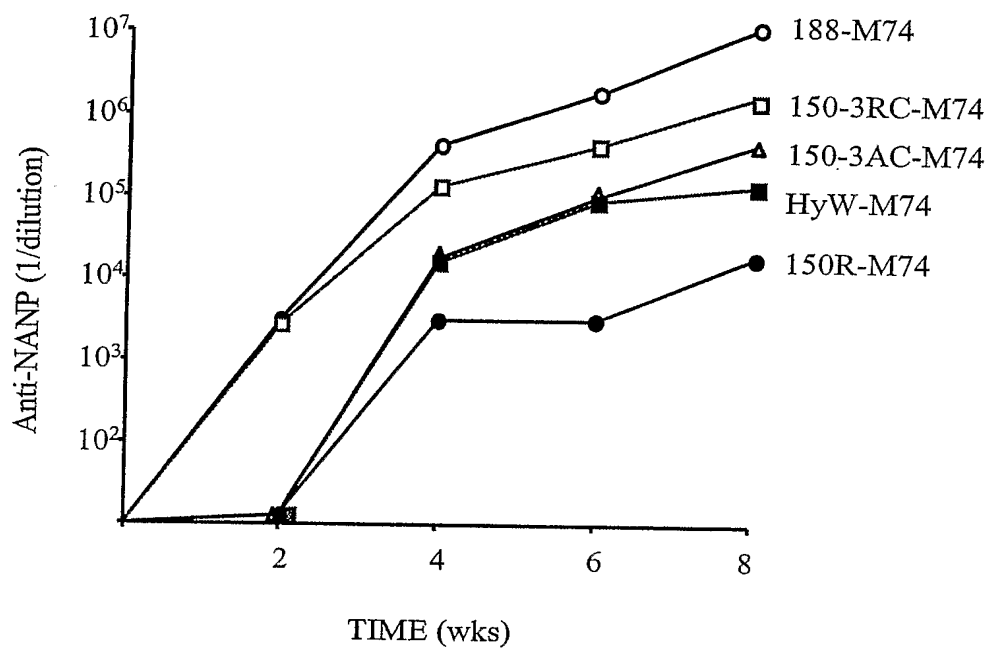
Fig. 14



**Fig. 15**

**Fig. 16**



**Fig. 17**

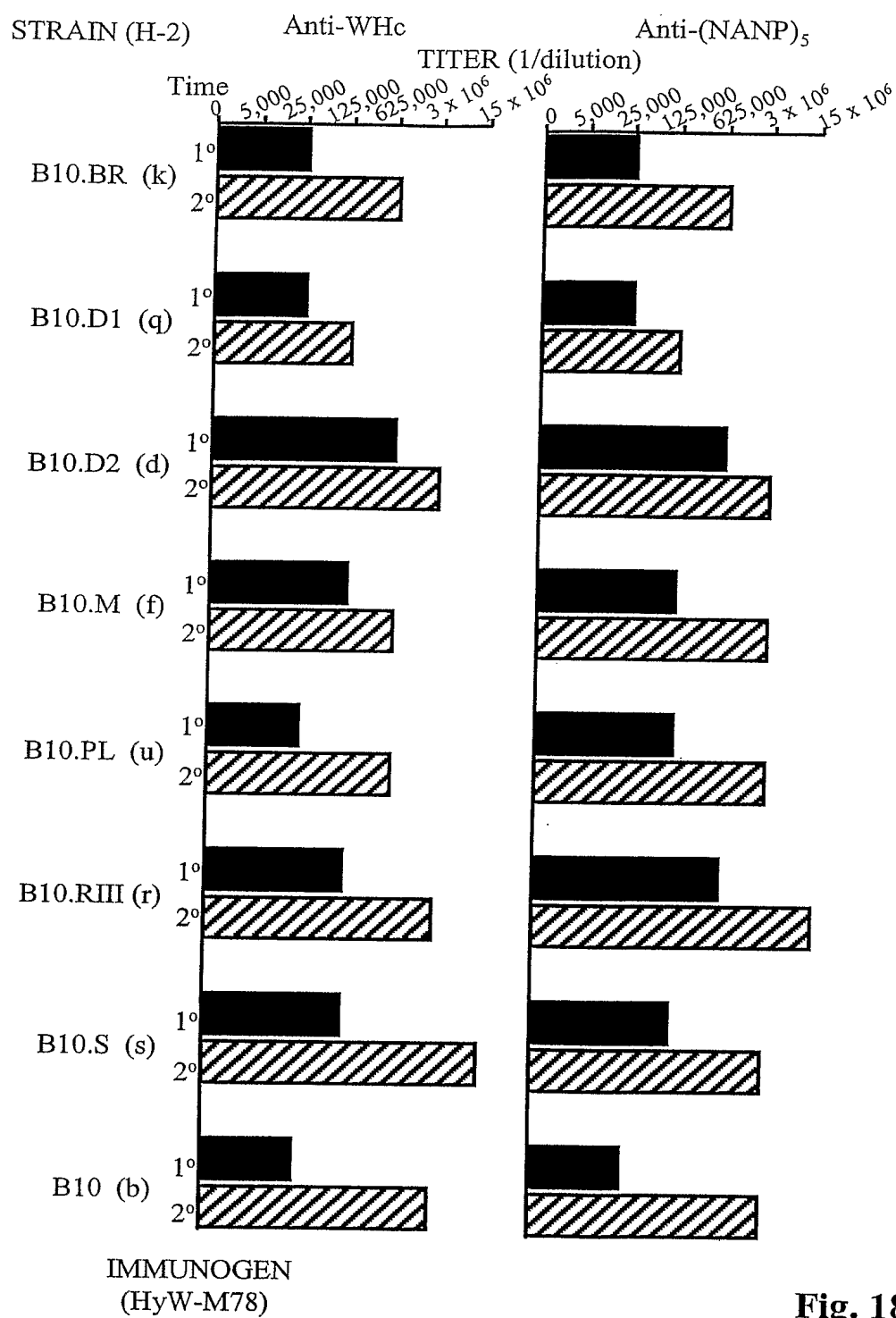


Fig. 18

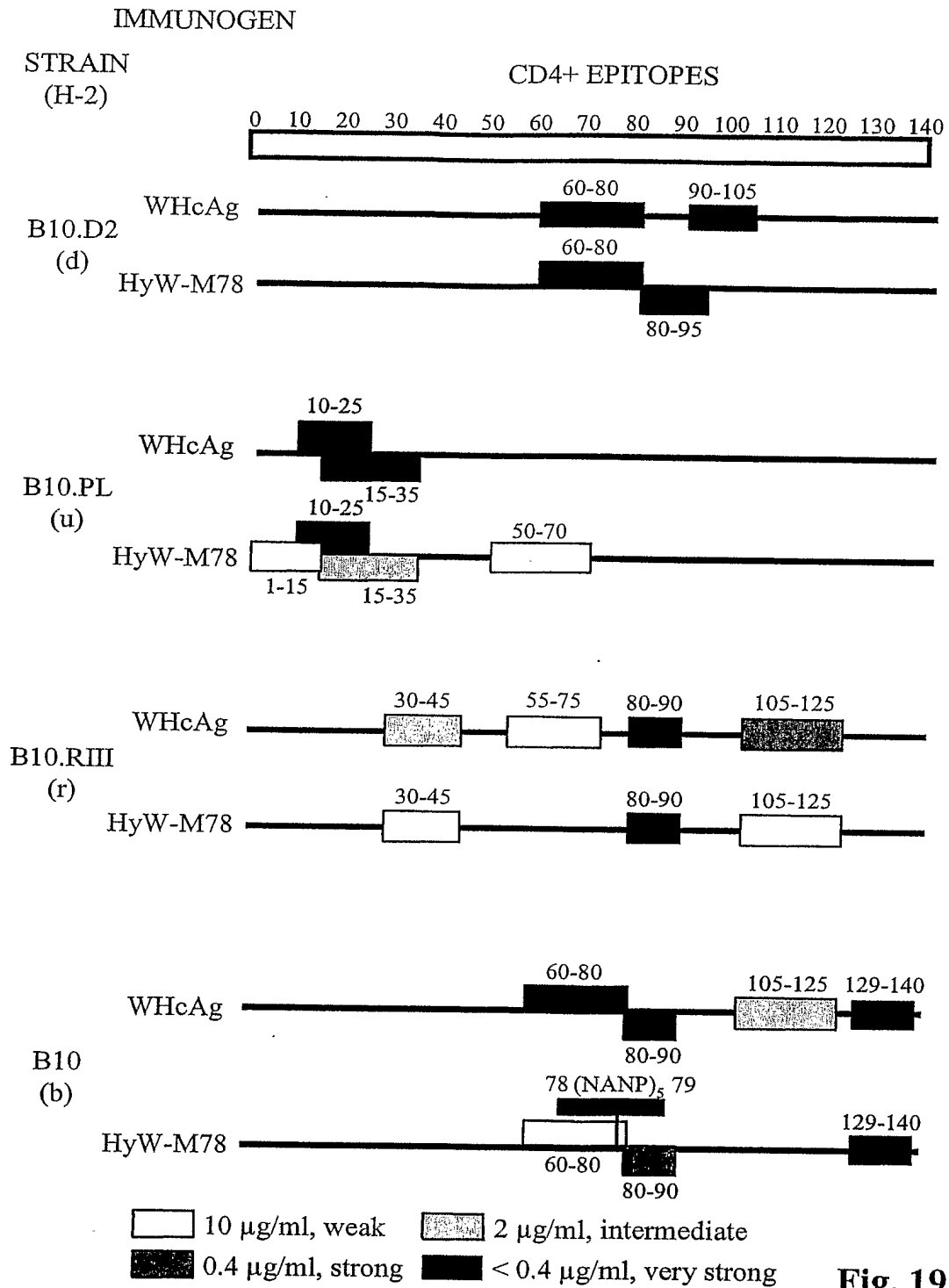


Fig. 19

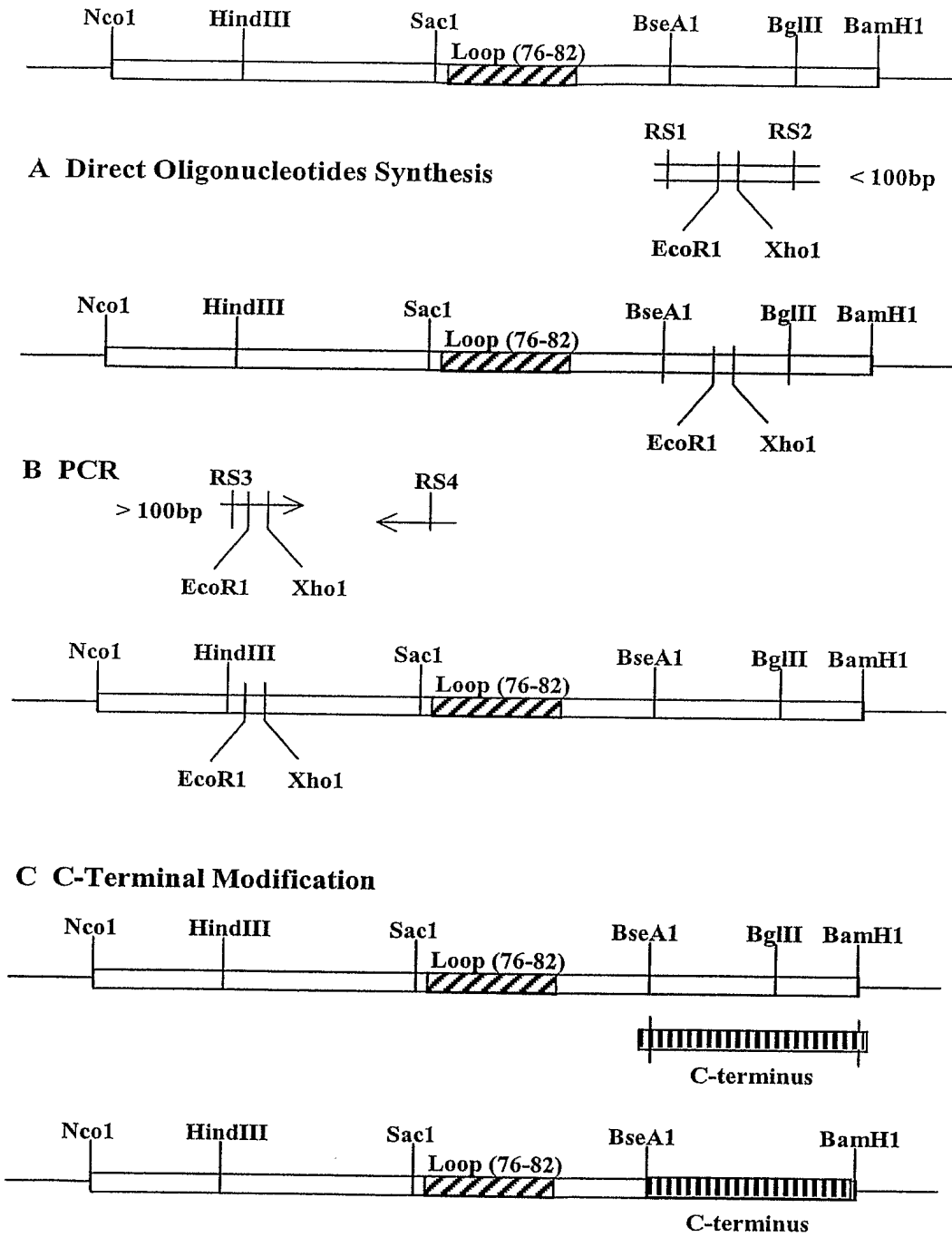
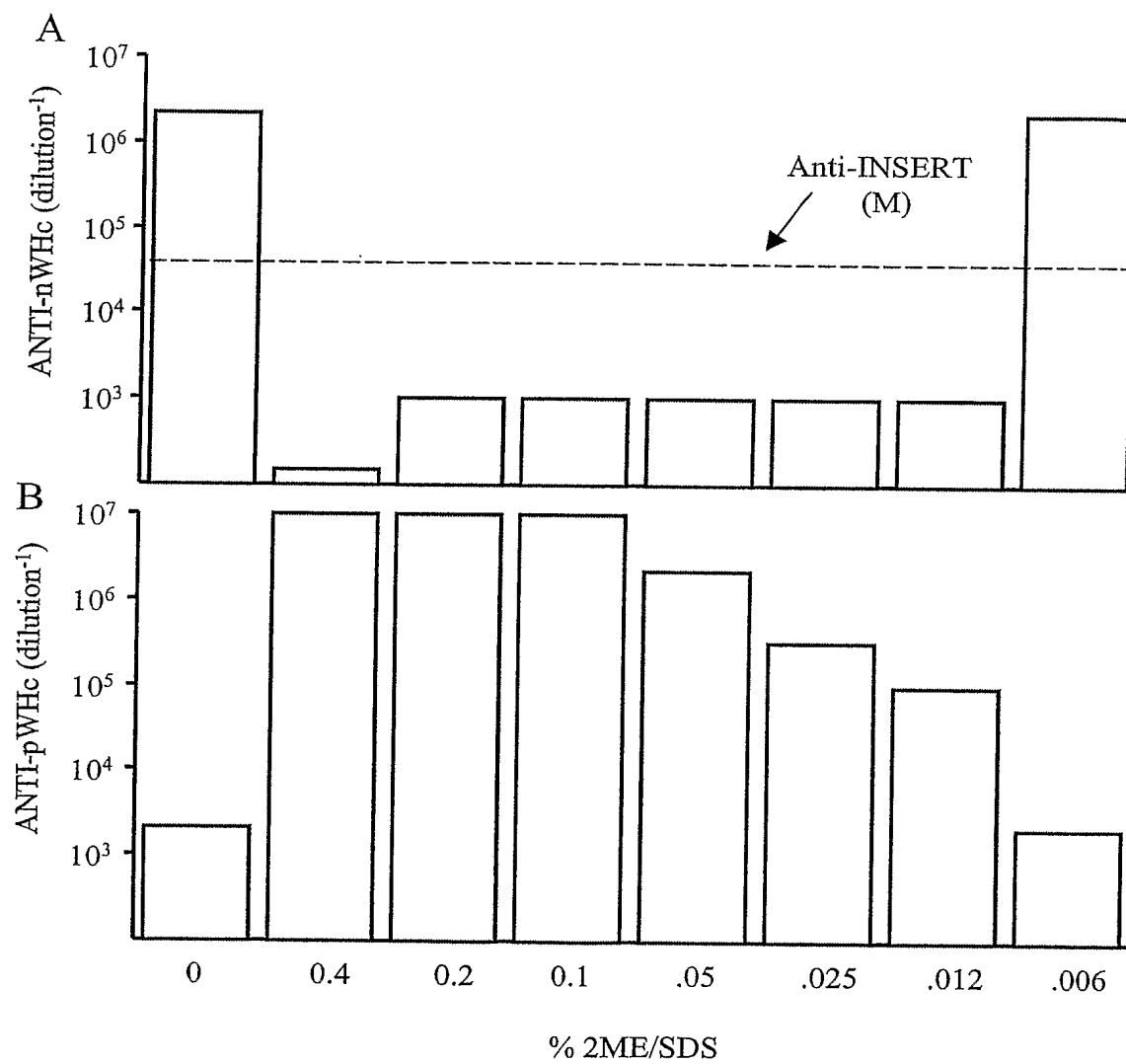


Fig. 20

**Fig. 21**

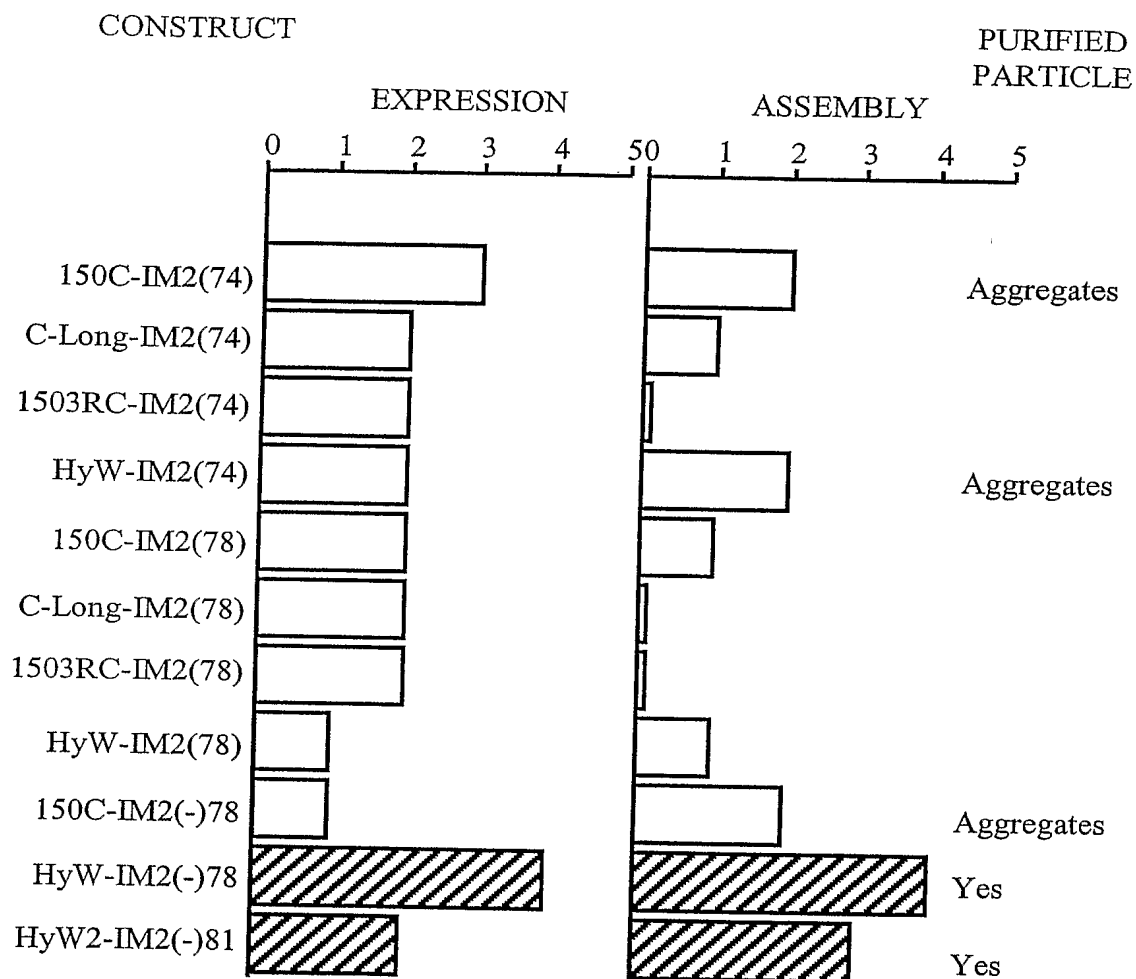
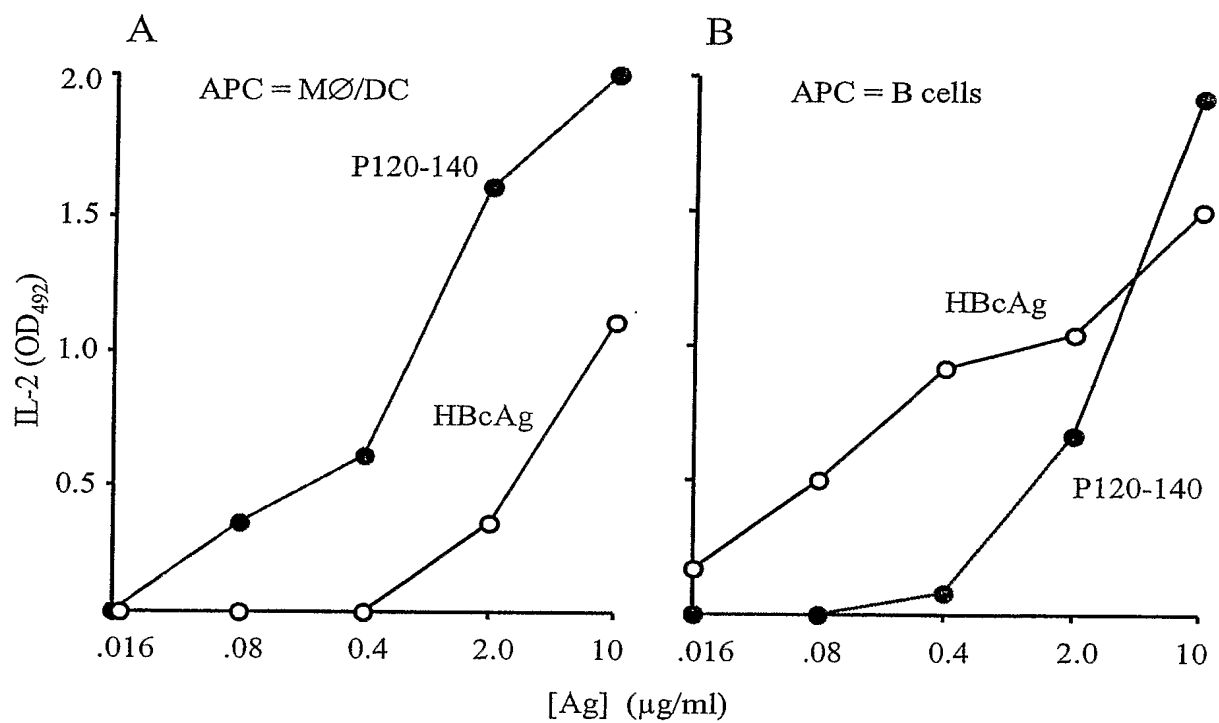
**Fig. 22**

Fig. 23

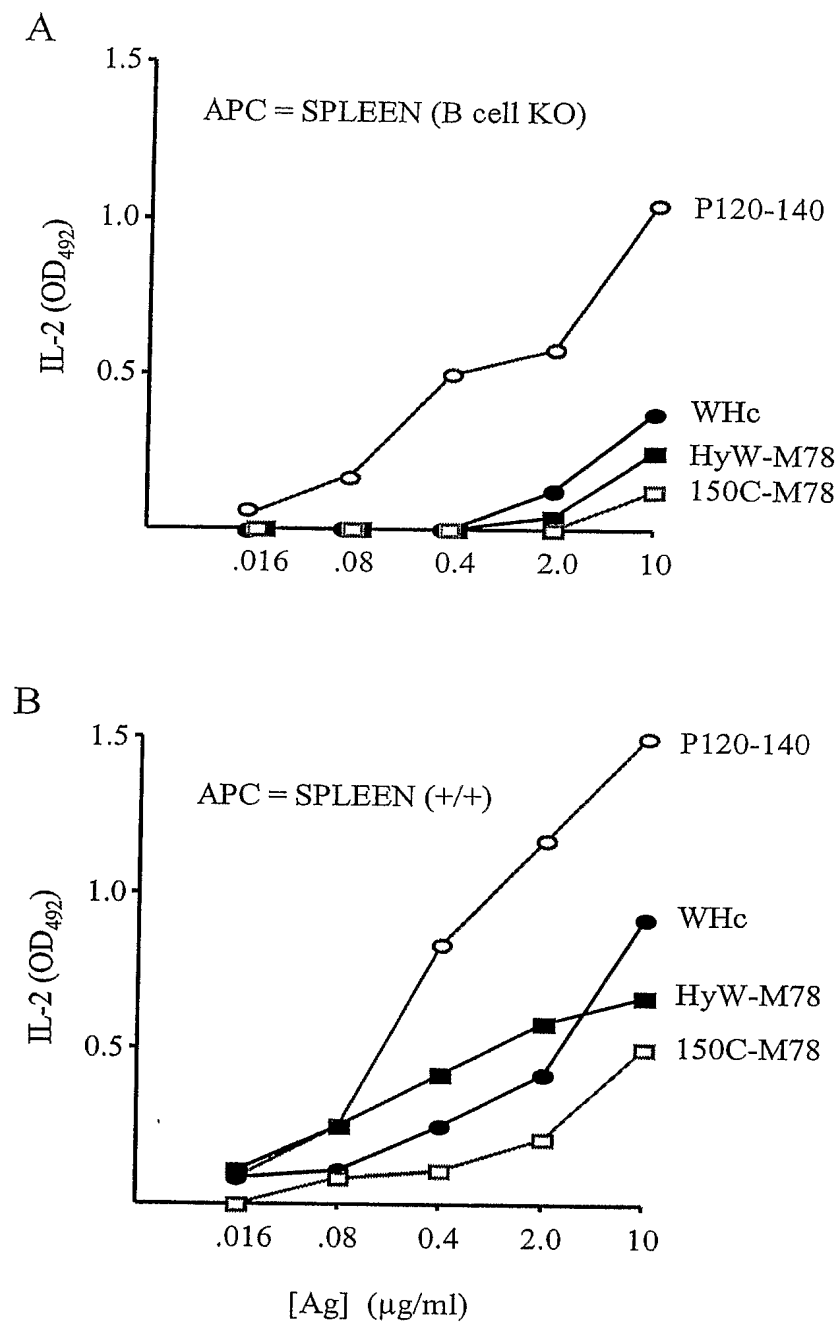
																		Polyclonal Anti-HyW-IM2(-)78											
																		mAb 14C2											
WtM2e	M	S	L	L	T	E	V	E	T	P	I	R	N	E	W	G	C	R	C	N	D	S	S	D					
P1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	625000				
P2	-	-	-	-	-	-	-	-	-	-	A	-	-	-	-	-	-	-	-	-	-	-	-	-	125000				
P3	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-	-	-	-	-	-	-	-	-	125000				
P4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3 x 10 <sup>6</sup>				
P5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	625000				
P6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	625000				
P7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3 x 10 <sup>6</sup>				
P8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-	-	-	-	625000				
P9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-	-	-	-	3 x 10 <sup>6</sup>				
Core-IM2(-) Particle																		HyW-IM2(-)78										625000	15 x 10
Core-M78 Particle																												0	-

(Dilution=0.5 OD<sub>492</sub>) (1/Dilution)

(Dilution=0.5 OD<sub>492</sub>) (1/Dilution)

**Fig. 24**



**Fig. 25**

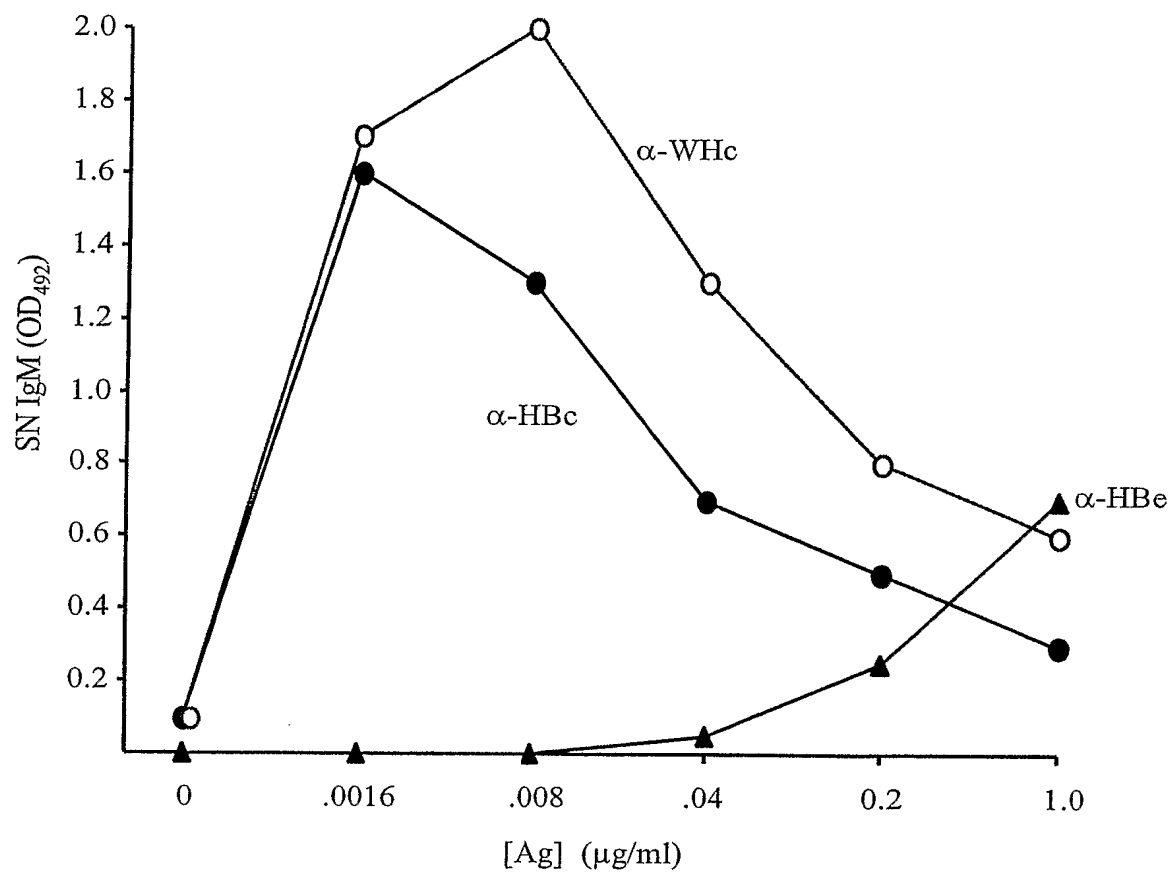


Fig. 26

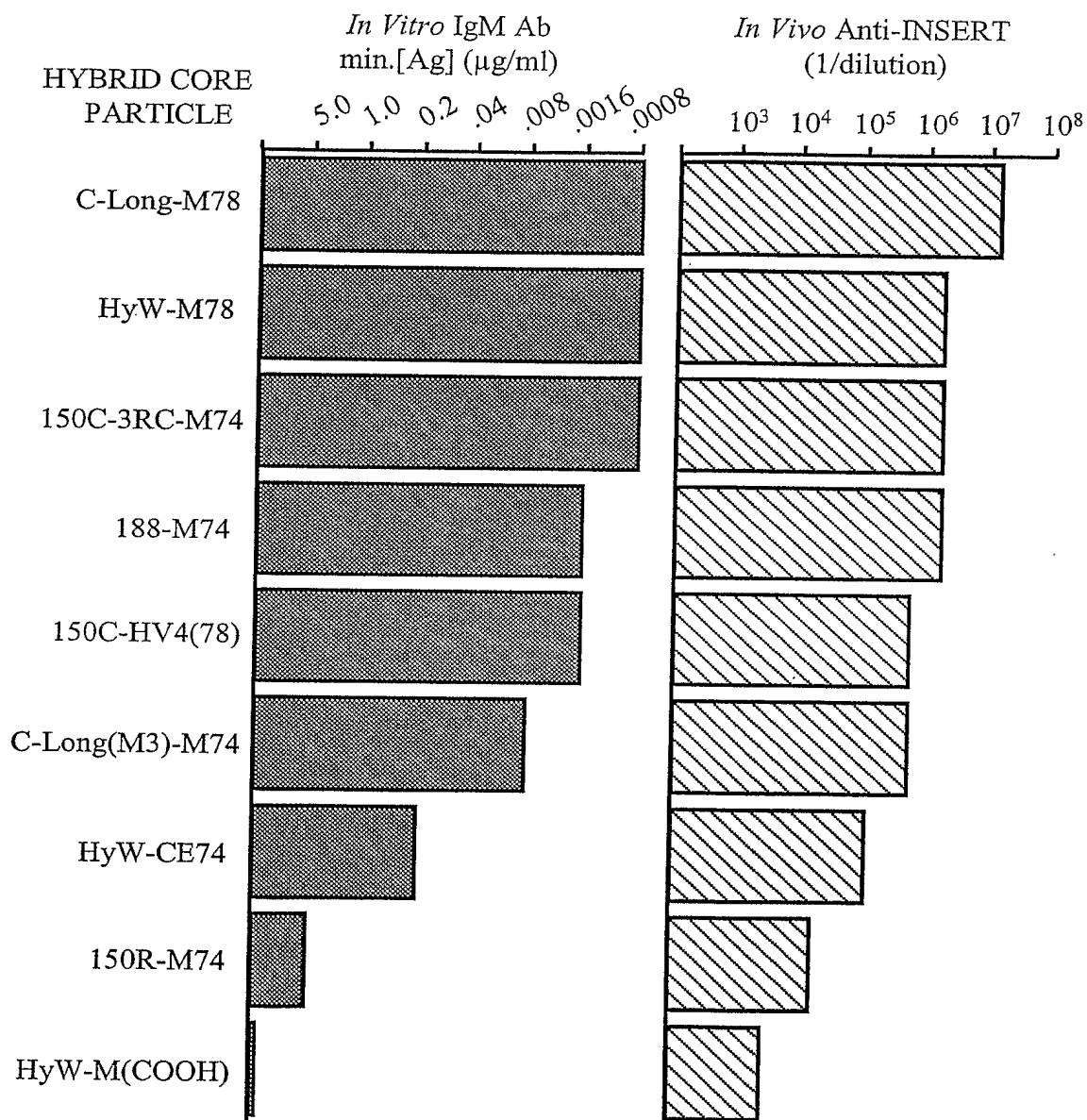
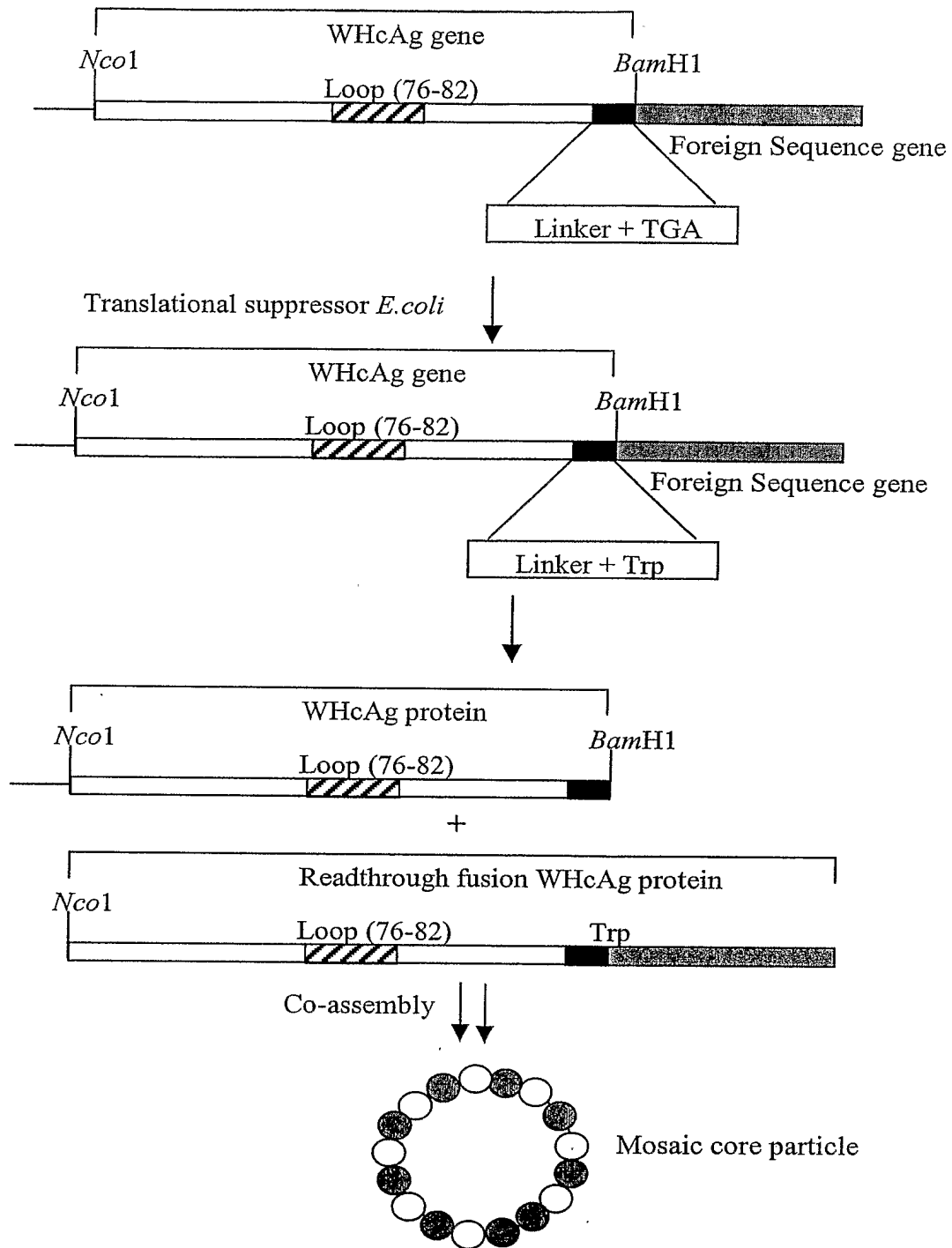


Fig. 27

**Fig. 28**

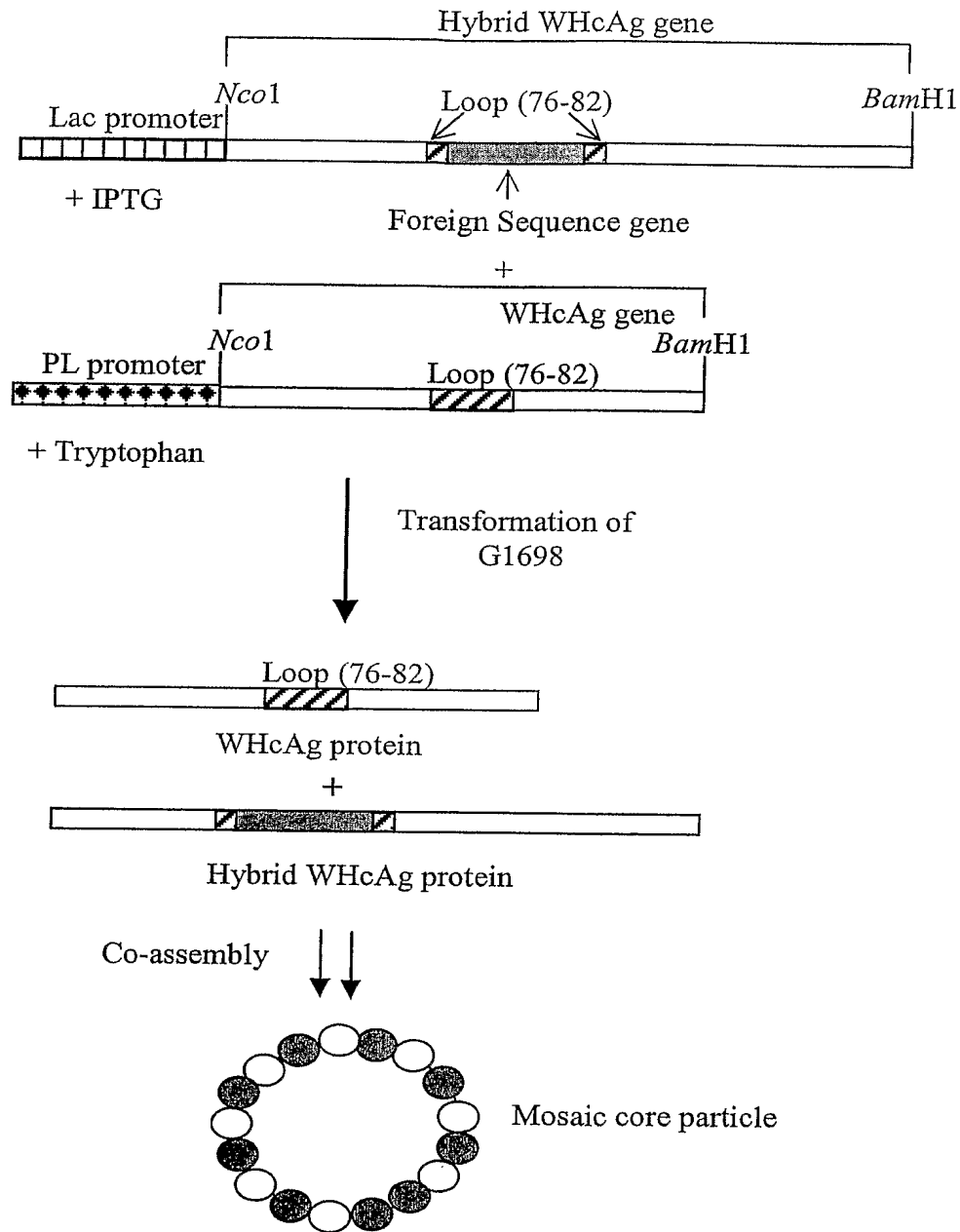
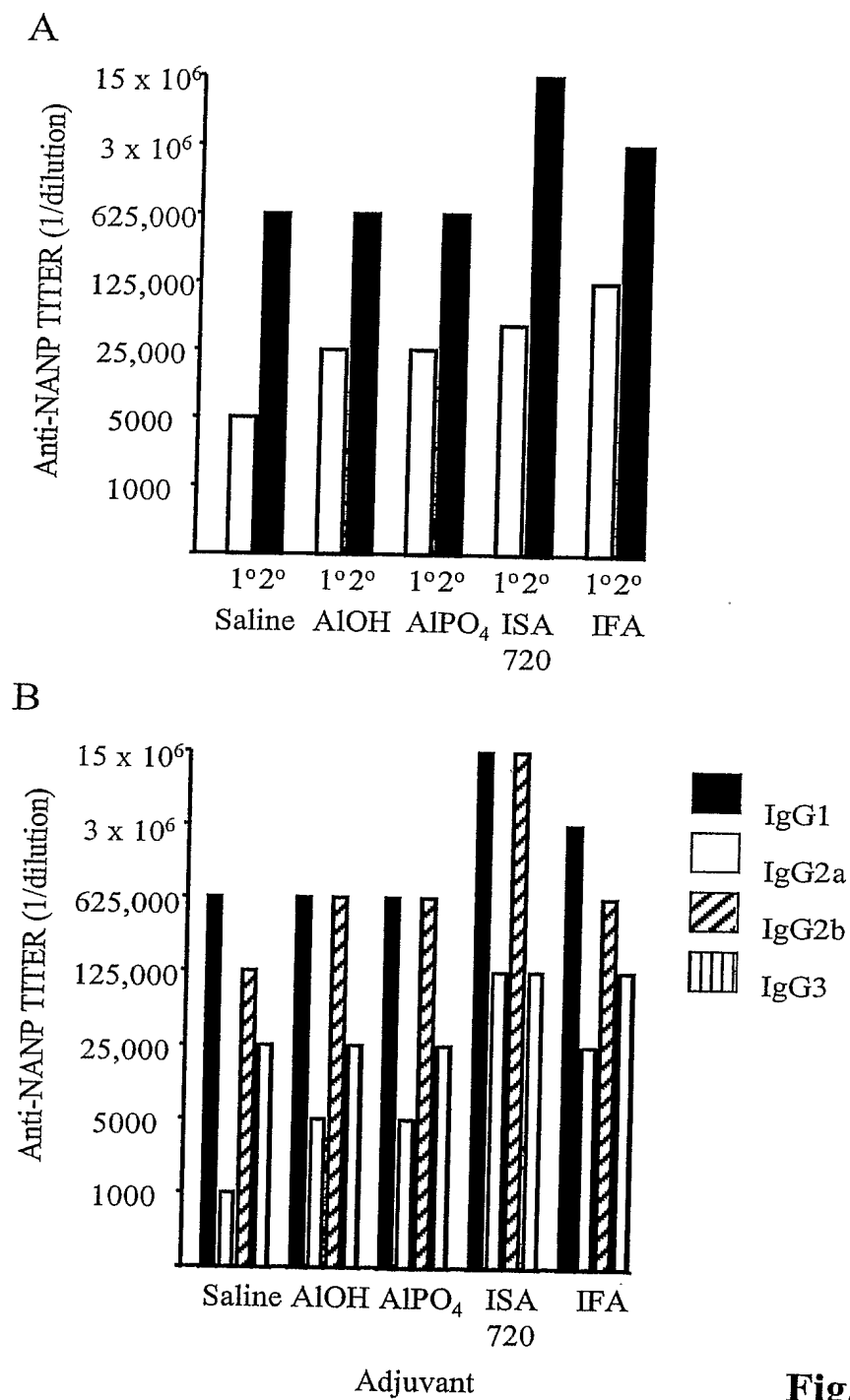
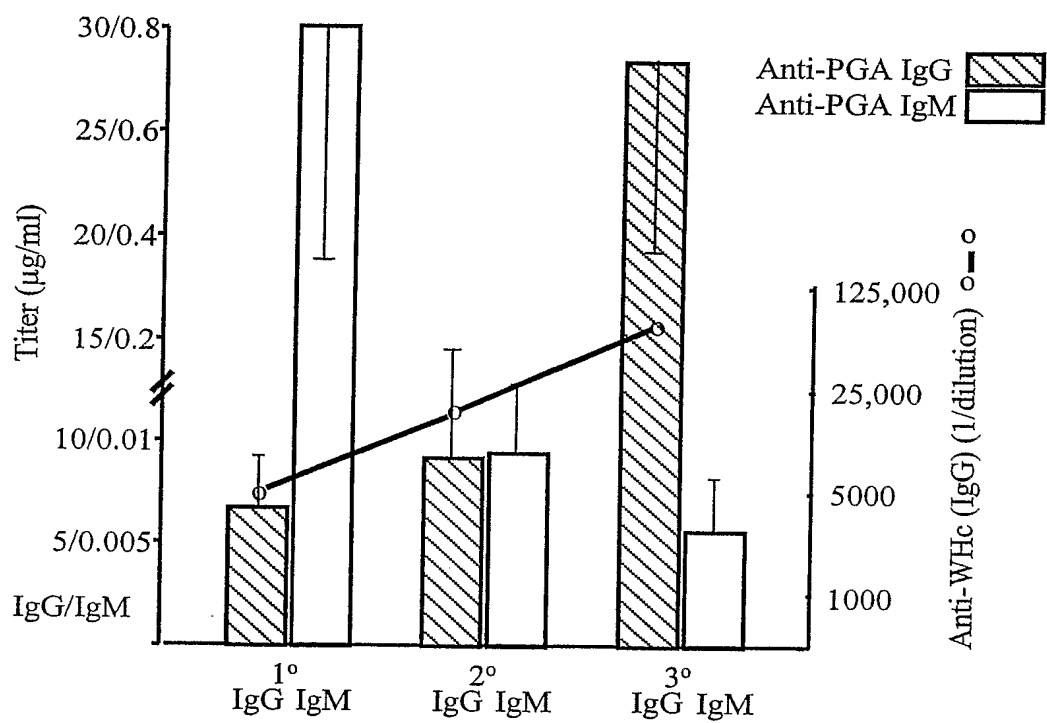


Fig. 29

**Fig. 30**

**Fig. 31**

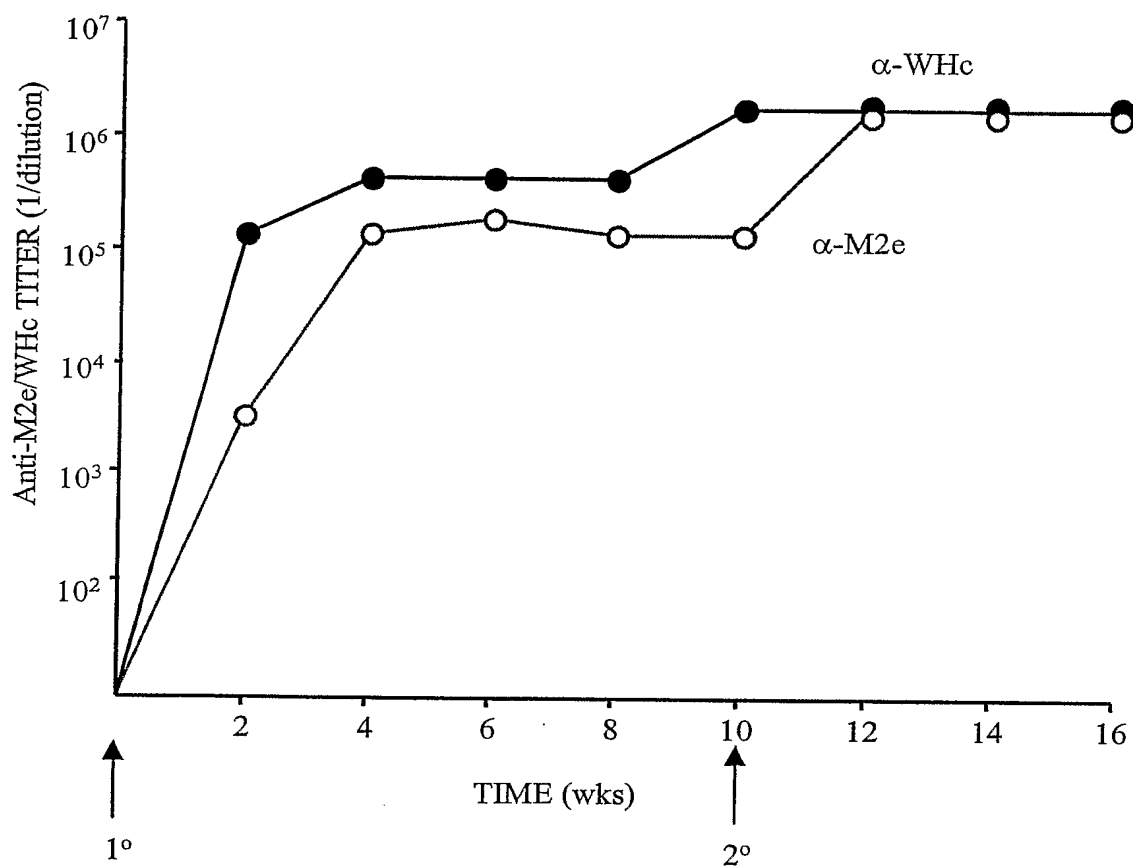
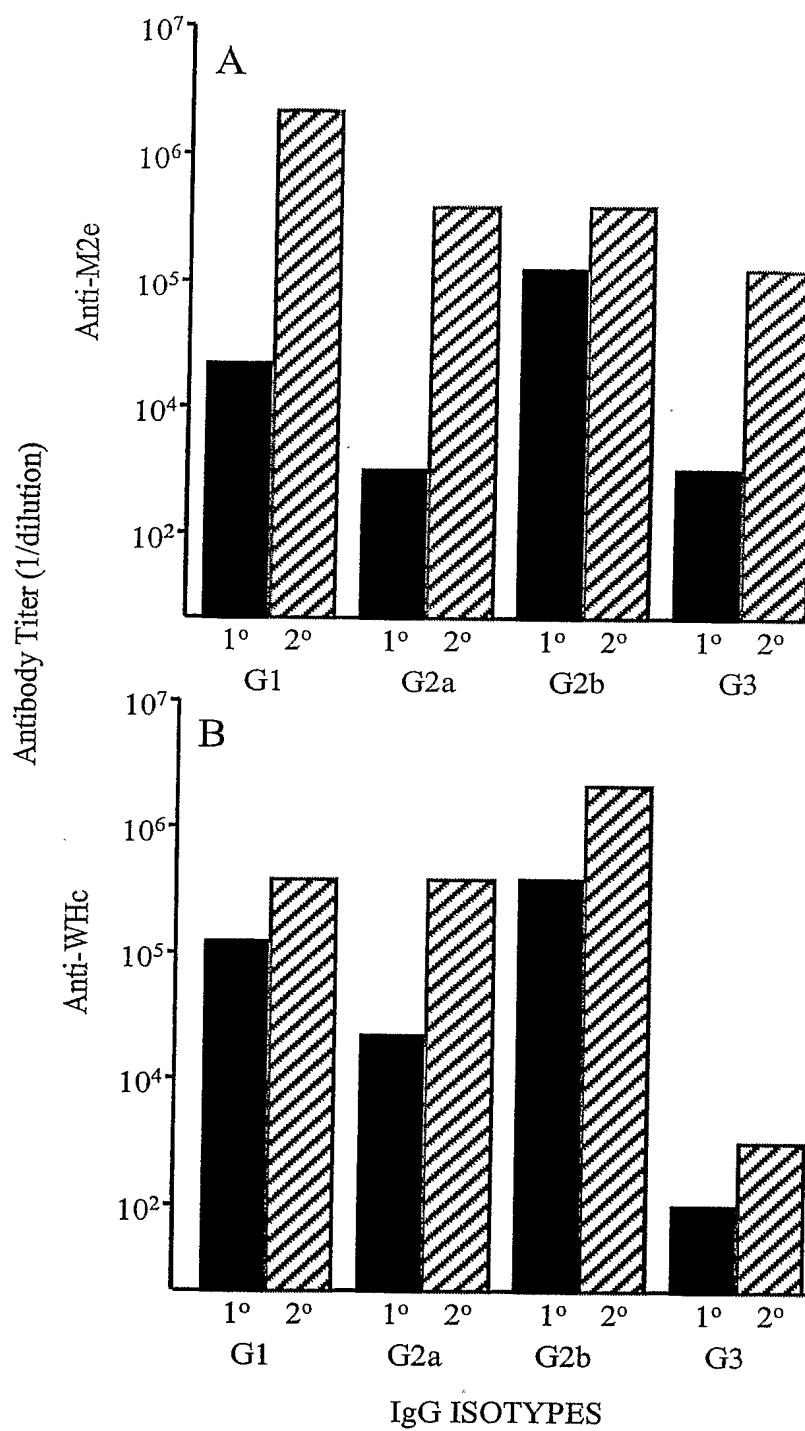


Fig. 32



**Fig. 33**

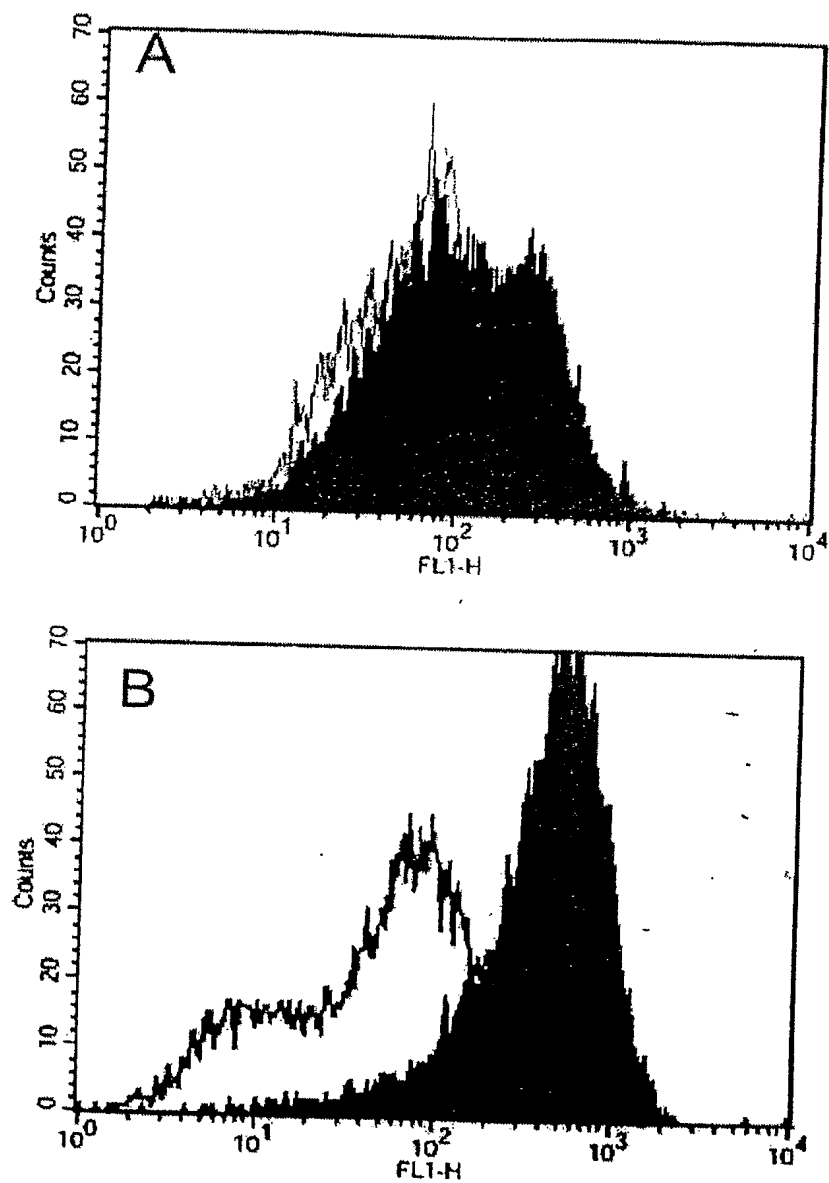
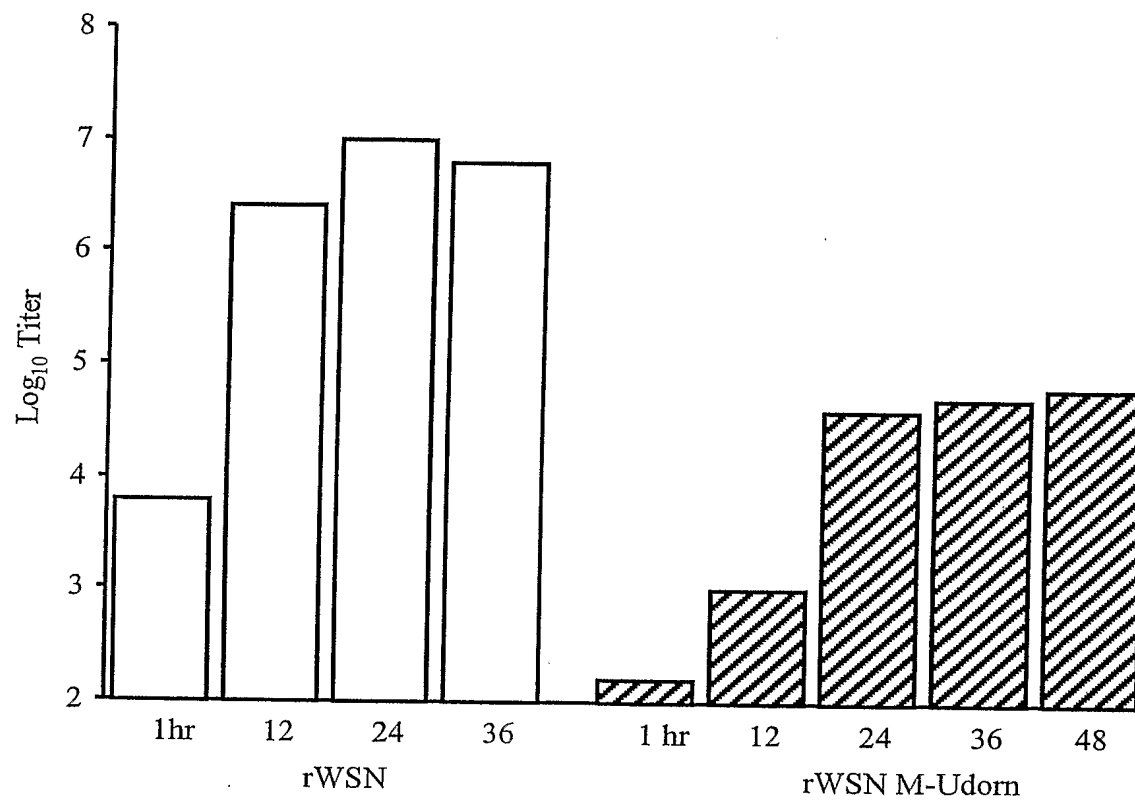


Fig. 34

**Fig. 35**

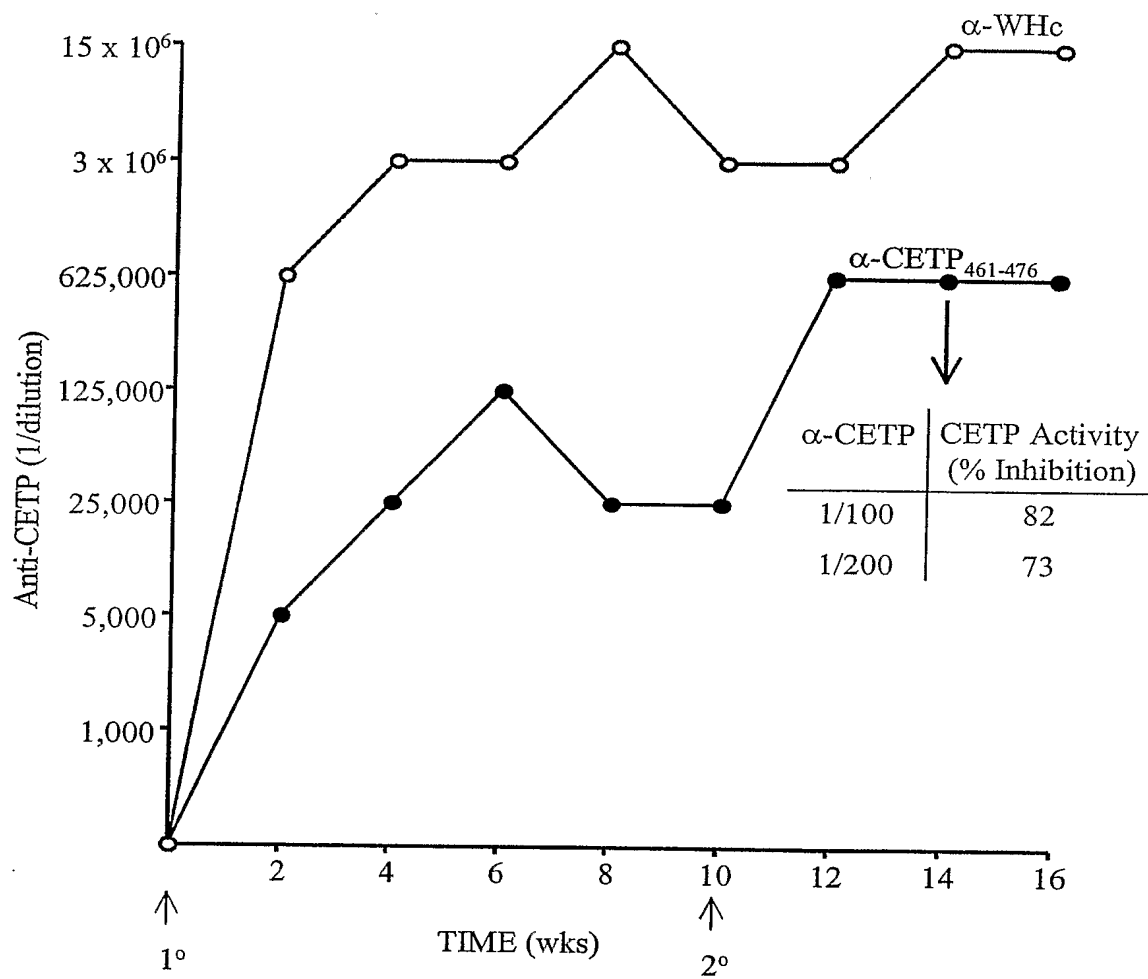
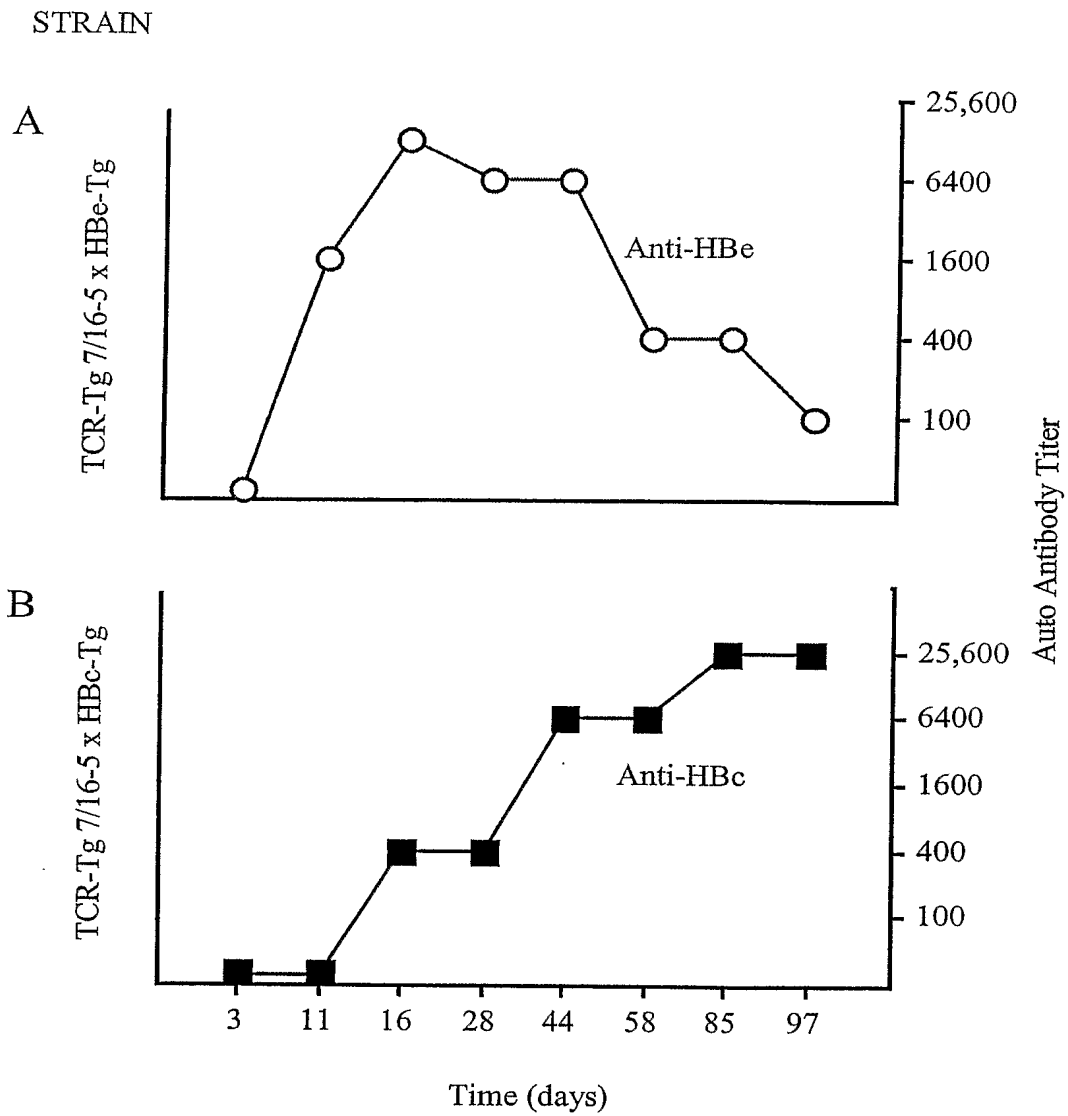
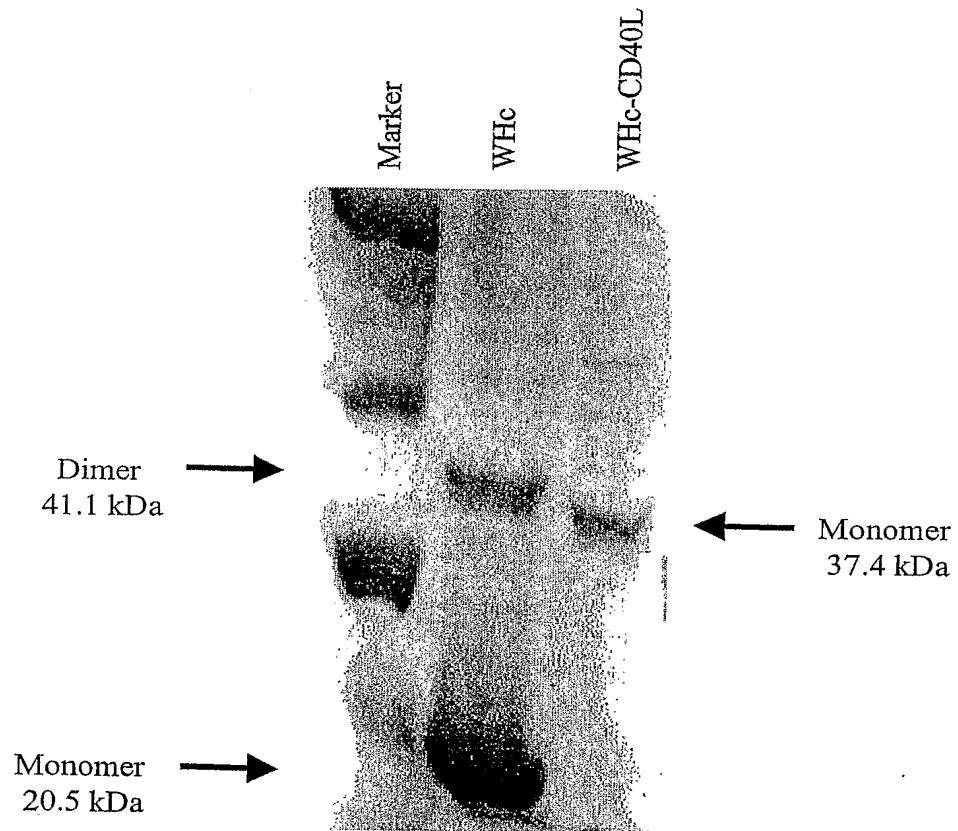


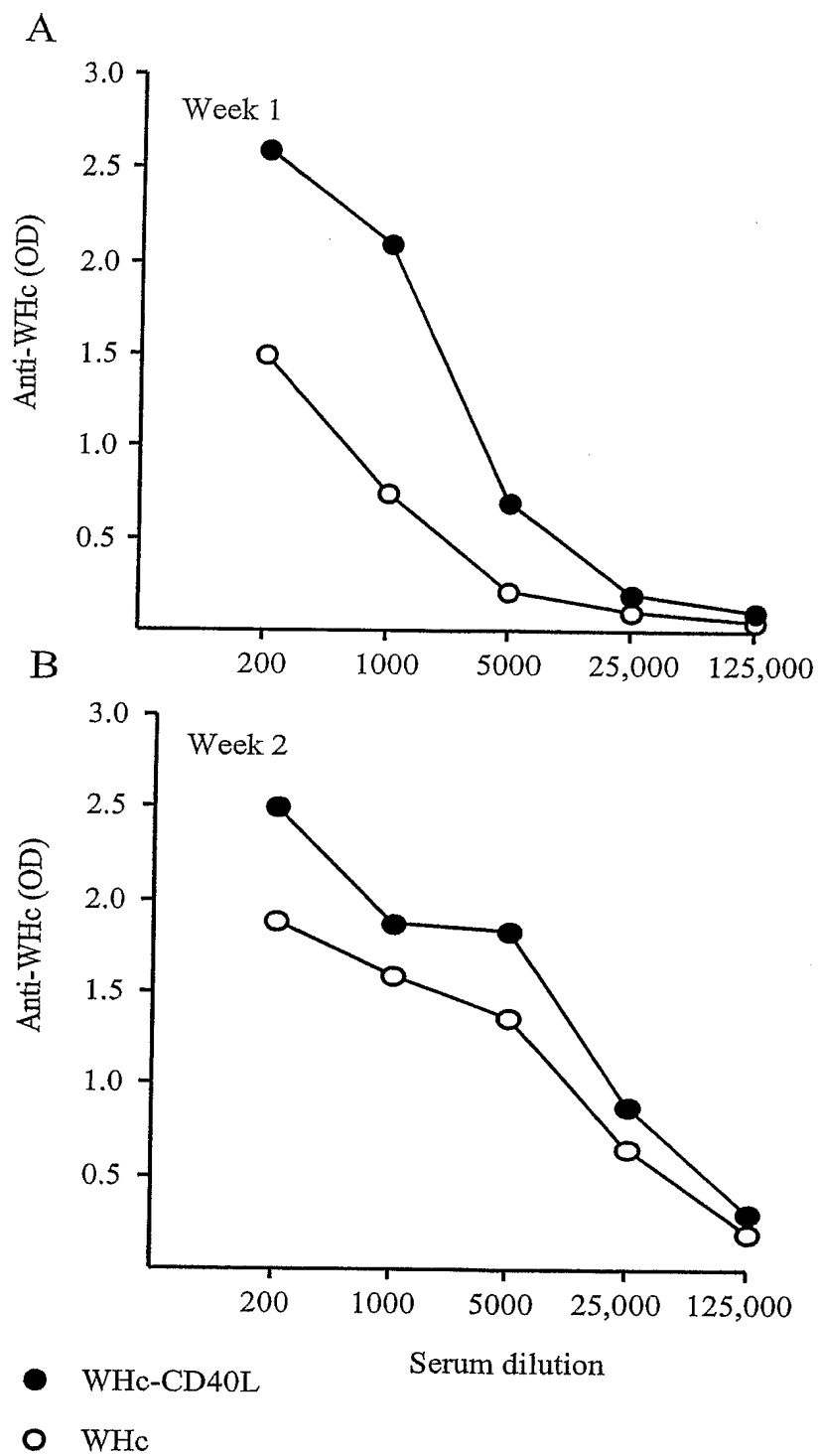
Fig. 36



**Fig. 37**



**Fig. 38**

**Fig. 39**

## Fig. 40

## A Wild Type WHcAg DNA (SEQ ID NO:37)

ATGGACATAGATCCCTATAAAGAATTTGGTTCATCTTATCAGTTGTTGAATTTTCTTCC  
TTTGGACTTCTTTCTTGACCTTAATGCTTTGGTGGACACTGCTACTGCCTTGTATGAAG  
AAGAGCTAACAGGTAGGGAACATTGCTCTCCGCACCATAACAGCTATTAGACAAGCTTTA  
GTATGCTGGGATGAATTAATAAATTGATAGCTTGGATGAGCTCTAACATAACTTCTGA  
ACAAGTAAGAACAATCATTGTAAATCATGTCAATGATACCTGGGGACTTAAGGTGAGAC  
AAAGTTTATGGTTTCATTTGTCATGTCTCACTTTCGGACAACATAACAGTTCAAGAATTT  
TTAGTAAGTTTTGGAGTATGGATCAGGACTCCAGCTCCATATAGACCTCCTAATGCACC  
CATTCTCTCGACTCTTCCGGAACATAACAGTCATTAGGAGAAGAGGAGGTGCAAGAGCTT  
CTAGGTCCCCCAGAAGACGCACTCCCTCTCCTCGCAGGAGAAGATCTCAATCACCGCGT  
CGCAGACGCTCTCAATCTCCATCTGCCAACTGCTGA

## B Wild Type WHcAg (SEQ ID NO:1)

MDIDPYKEFGSSSYQLLNFLPLDFFPDLNALVDTATALYEEELTGREHCSPHHTAIRQAL  
VCWDELTKLIAWMSSNITSEQVRTIIIVNHVNDTWGLKVRQSLWFHLSCLTFGQHTVQEF  
LVSFQVWIRTPAPYRPPNAPILSTLPEHTVIRRRGGARASRSPRRRTPSPRRRRSQSPR  
RRRSQSPSANC

## C Truncated WHcAg (SEQ ID NO:38)

MDIDPYKEFGSSSYQLLNFLPLDFFPDLNALVDTATALYEEELTGREHCSPHHTAIRQAL  
VCWDELTKLIAWMSSNITSEQVRTIIIVNHVNDTWGLKVRQSLWFHLSCLTFGQHTVQEF  
LVSFQVWIRTPAPYRPPNAPILSTLPEHTVI



## Fig. 41

## A Wild Type GSHcAg DNA (SEQ ID NO:39)

ATGGACATAGATCCCTATAAAGAATTTGGTTCTTCTTATCAGTTGTTGAATTTTCTTCC  
TTTGGACTTTTTTCCTGATCTCAATGCATTGGTGGACACTGCTGCTGCTCTTTATGAAG  
AAGAATTAACAGGTAGGGAGCATTGTTCTCCTCATCATACTGCTATTAGACAGGCCTTA  
GTGTGTTGGGAAGAATTAAGTAGATTAATTACATGGATGAGTGAAAATACAACAGAAGA  
AGTTAGAAGAATTATTGTTGATCATGTCAATAATACTTGGGGACTTAAAGTAAGACAGA  
CTTTATGGTTTCATTTATCATGTCTTACTTTTGGACAACACACAGTTCAAGAATTTTGG  
GTTAGTTTTGGAGTATGGATTAGAACTCCAGCTCCTTATAGACCACCTAATGCACCCAT  
TTTATCAACTCTTCCGGAACATACAGTCATTAGGAGAAGAGGAGGTTCAAGAGCTGCTA  
GGTCCCCCGAAGACGCACTCCCTCTCCTCGCAGGAGAAGGTCTCAATCACCGCGTCGC  
AGACGCTCTCAATCTCCAGCTTCCAAGTCTGA

## B Wild Type GSHcAg (SEQ ID NO:21)

MDIDPYKEFGSSYQLLNFLPLDFFPDLNALVDTAALYEEELTGREHCSPHHTAIRQAL  
VCWEELTRLITWMSSENTTEEVRRIIVDHVNNTWGLKVRQTLWFHLSCLTFGQHTVQEFL  
VSFGVWIRTPAPYRPPNAPILSTLPEHTVIRRRGGSRAARSPRRRTSPRRRRSQSPRR  
RRSQSPASNC

## C Truncated GSHcAg (SEQ ID NO:40)

MDIDPYKEFGSSYQLLNFLPLDFFPDLNALVDTAALYEEELTGREHCSPHHTAIRQAL  
VCWEELTRLITWMSSENTTEEVRRIIVDHVNNTWGLKVRQTLWFHLSCLTFGQHTVQEFL  
VSFGVWIRTPAPYRPPNAPILSTLPEHTVI

Fig. 42

## A Wild Type HBcAg DNA (SEQ ID NO:57)

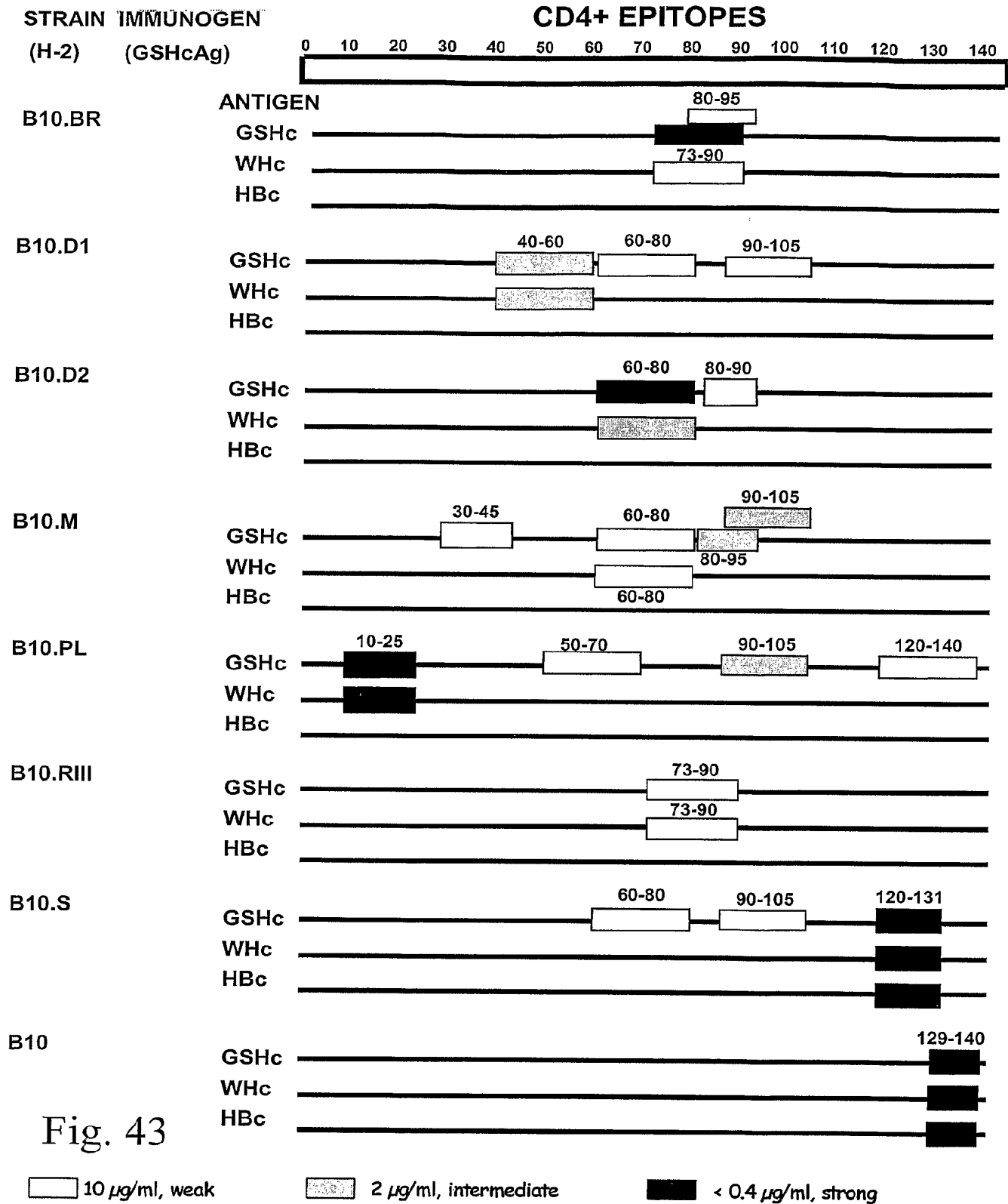
ATGGACATCGACCCTTATAAAGAATTTGGAGCTACTGTGGAGTTACTCTCGTTTTTGGC  
TTCTGACTTCTTTCCTTCAGTACGAGATCTTCTAGATACCGCCTCAGCTCTGTATCGGG  
AAGCCTTAGAGTCTCCTGAGCATTGTTACCTCACCATACTGCACTCAGGCAAGCAATT  
CTTTGCTGGGGGGAACATAATGACTCTAGCTACCTGGGTGGGTGTTAATTTGGAAGATCC  
AGCATCCAGAGACCTAGTAGTCAGTTATGTCAACACTAATATGGGCCTAAAGTTCAGGC  
AACTCTTGTGGTTTCACATTTCTTGTCTCACTTTTGAAGAGAAACCGTTATAGAGTAT  
TTGGTGTCTTTTCGGAGTGTGGATTTCGCACTCCTCCAGCTTATAGACCACCAAATGCCCC  
TATCCTATCAACACTTCCGGAACACTACTGTTGTTAGACGACGAGGCAGGTCCCCTAGAA  
GAAGAACTCCCTCGCCTCGCAGACGAAGGTCTCAATCGCCGCGTCGCAGAAGATCTCAA  
TCTCGGGAATCTCAATGTTGA

## B Wild Type HBcAg (SEQ ID NO:41)

MDIDPYKEFGATVELLSFLPSDFFPSVRDLLDTASALYREALESPEHCSPHHTALRQAI  
LCWGELMTLATWVGVNLEDPASRDLVVSYNNTNMGLKFRQLLWFHISCLTFGRETVIEY  
LVSFGVWIRTPPAYRPPNAPILSTLPETTVVRRRGRSPRRRTPSPRRRRSQSPRRRRSQ  
SRESQC

## C Truncated HBcAg (SEQ ID NO:58)

MDIDPYKEFGATVELLSFLPSDFFPSVRDLLDTASALYREALESPEHCSPHHTALRQAI 54  
LCWGELMTLATWVGVNLEDPASRDLVVSYNNTNMGLKFRQLLWFHISCLTFGRETVIEY 112  
LVSFGVWIRTPPAYRPPNAPILSTLPETTVV



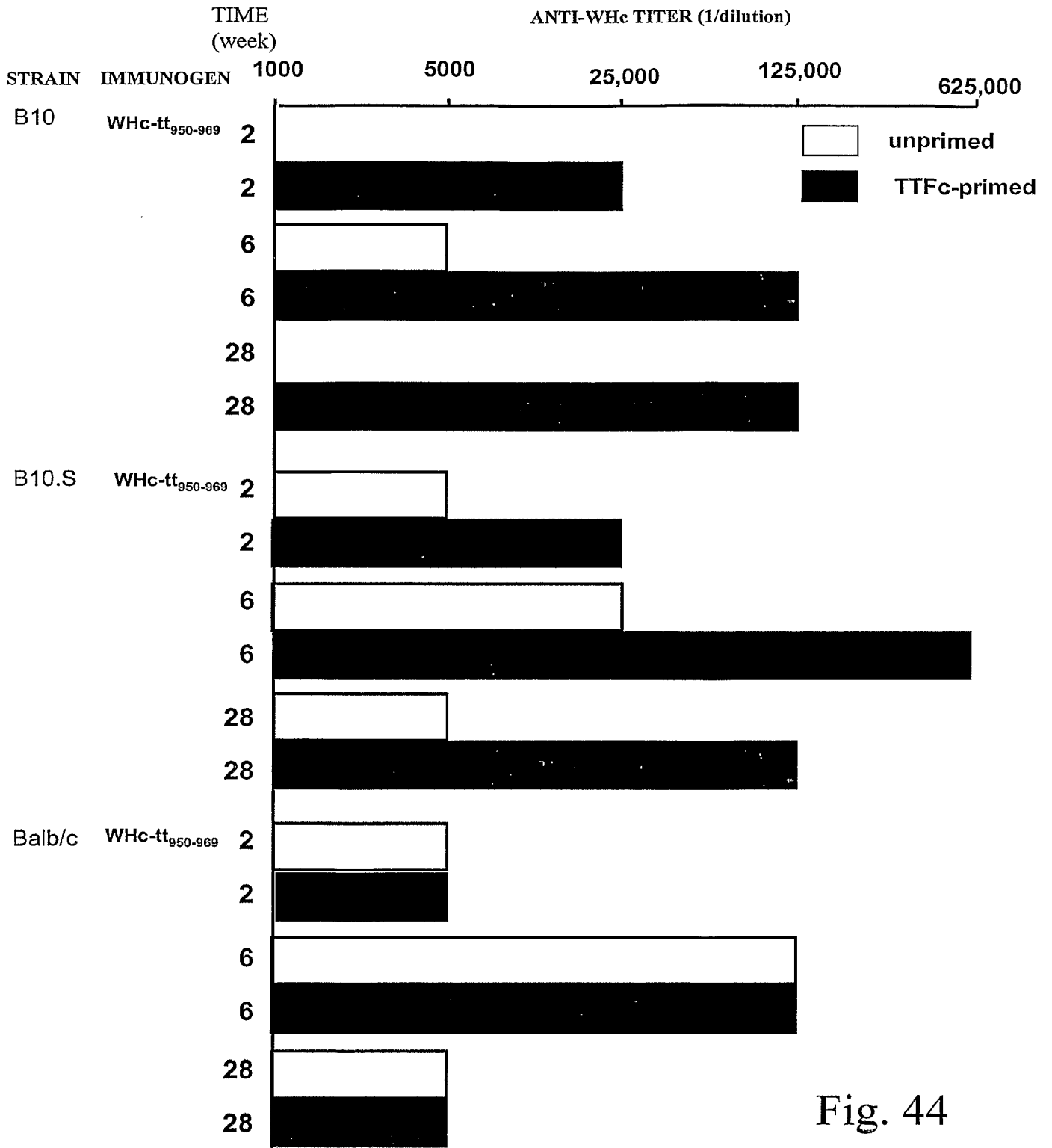
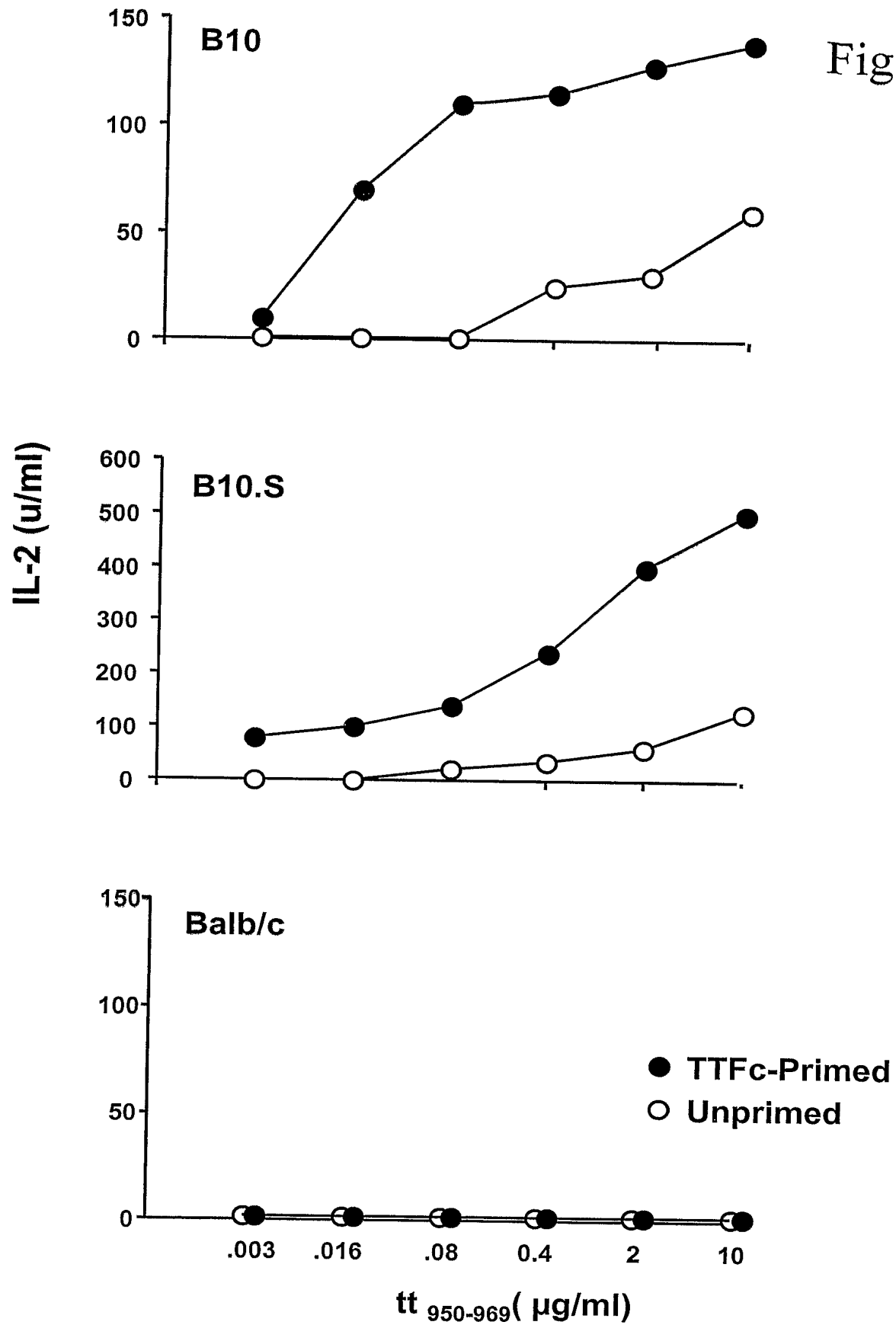


Fig. 44

Fig. 45



המחלקה לביטחון המדינה

DHBV-S31 M32931  
HHEV M22056  
DHBV\_NC 001344  
HHEV\_ayw X55257  
Chimp.HBV AF22323  
Gibbon.HBV AY07735  
Rose 'gooseHBV M95589  
Orangutan\_HV\_NC\_002168  
WMHBV AF046996  
GSBV K02715  
WHV J02442  
AGSH\_NC 001719

DHBV-S31 M32991  
HHBV M22056  
DHBV NC\_001344  
HBV ayw X65257  
Chimp.HBV AF222323  
Gibbon HBV AY077735  
Ross'gooseHBV M95589  
Orangutan HV NC\_002168  
WHBV AF046996  
GSHV K02715  
WHV J02442  
AGSH NC\_001719

DHBV-S31 M32591  
HHBV M22056  
DHEV NC\_001344  
HBV ayw X65257  
ChImp.HBV AF222323  
Gibbon HBV AY077735  
Ross' gooseHBV M95589  
Orangutan HV NC\_002168  
WMHBV AF046996  
GSHV K03715  
WHV J02442  
AGSH NC\_001719

FIG.  
46B

DHBV-S31 M32991  
HHBV M22056  
DHBV NC\_001344  
HBV ayw X65257  
Chimp.HBV AF222323  
Gibbon HBV AY077735  
Ross'gooseHBV M95589  
Orangutan HV NC\_002168  
WMHBV AF046996  
GSHV K02715  
WHV J02442  
AGSH NC\_001719

T G Y L I Q H E E A E E I P L G D L F K H Q E E R I V S F Q  
E G F L I T H S E A E E I P L N D L F S N Q E E R I V N F Q  
T G Y L I Q H E E A E E I P L G D L F K H Q E E R I V S F Q  
V G V N L E D P A S R D L - - - - -  
V G V N L E D P A S R E Q - - - - -  
V G V N L E D P A S R E L - - - - -  
Q G F L V Q H E E A E E I P L G E L F R Y Q E E R L T N F Q  
V G V N L E D P A S R E L - - - - -  
V G V N L E D P A A R E L - - - - -  
M S E N T T E E V R R I - - - - -  
M S S N I T S E Q V R T I - - - - -  
M S A N I N S E V R R V - - - - -  
G N . . . . R E .

DHBV-S31 M32991  
HHBV M22056  
DHBV NC\_001344  
HBV ayw X65257  
Chimp.HBV AF222323  
Gibbon HBV AY077735  
Ross'gooseHBV M95589  
Orangutan HV NC\_002168  
WMHBV AF046996  
GSHV K02715  
WHV J02442  
AGSH NC\_001719

P D Y P I T A R I H A H L K A Y A K I N E E S L D R A R R E  
P D Y P I T A R I H A H L K A Y T K L N E Q A L D K A R R I  
P D Y P I T A R I H A H L K A Y A K I N E E S L D R A R R I  
- - - - - V V S Y V N T N M G L K K I R Q L  
- - - - - V V S Y V N T N M G L K K I R Q L  
- - - - - V V S Y V N T N M G L K K I R Q L  
P D Y P V T A R I H A H L K A Y A K I N E E S L D R A R R I  
- - - - - V V S Y V N T N M G L K K I R Q L  
- - - - - V V S Y V N T N M G L K K I R Q L  
- - - - - I V D H V N T T W G L K V R Q T  
- - - - - I V N H V N D T W G L K V R Q S  
- - - - - I V A H V N D T W G L K V R Q N  
V . . V N . . G L K . R Q L

DHBV-S31 M32991  
HHBV M22056  
DHBV NC\_001344  
HBV ayw X65257  
Chimp.HBV AF222323  
Gibbon HBV AY077735  
Ross'gooseHBV M95589  
Orangutan HV NC\_002168  
WMHBV AF046996  
GSHV K02715  
WHV J02442  
AGSH NC\_001719

L W W H Y N C L L W G E A N V T N Y I S R L R T W L S T P E  
L W W H Y N C L L W G E A N V T N Y I S R L R T W L S T P E  
L W W H Y N C L L W G E A N V T N Y I S R L R T W L S T P E  
L W F H I S C L T F G R E T V I E Y I V S F G V W I R T P P  
L W F H I S C L T F G R E T V I E Y I V S F G V W I R T P P  
L W F H I S C L T F G R E T V I E Y I V S F G V W I R T P P  
L W W H Y N C L L W G E A N V T N Y I S R L R T W L S T P E  
L W F H I S C L T F G R E T V I E Y I V S F G V W I R T P P  
L W F H I S C L T F G R E T V I E Y I V S F G V W I R T P P  
L W F H L S C L T F G Q H T V Q E F F L V S F G V W I R T P A  
L W F H L S C L T F G Q H T V Q E F F L V S F G V W I R T P A  
L W F H S C L T F G . T V E Y L V S F G V W I R T P

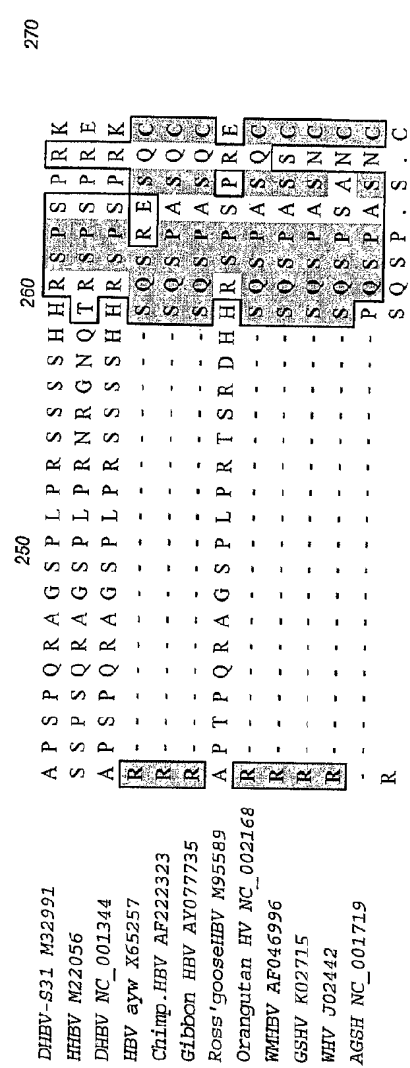
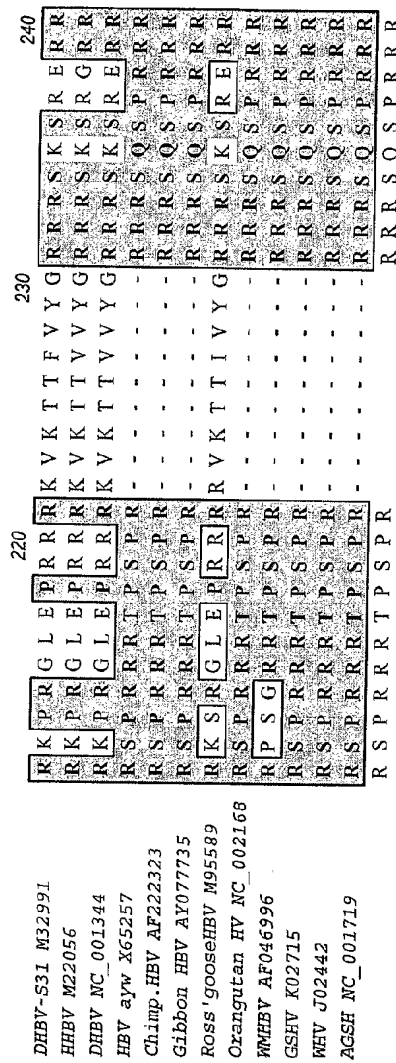
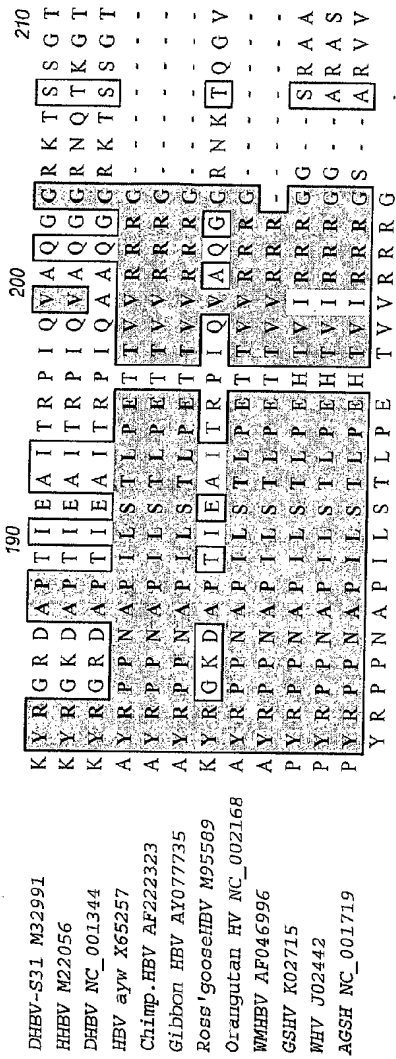


FIG. 46C